



# LITEMAX SLD0832 LCD Monitor

## User's Manual

(1st Edition 11/16/2006 )

All information is subject to change without notice.

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## **Product Description**

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Congratulations on purchasing this new generation monitor. This monitor is for industrial and professional use contributing to its industrial and professional features.

Also, this monitor incorporates high quality display into a small light weighted but strong module for particular extreme environment. You will certainly benefit from this monitor in many ways; to name some of them, comfort, safety, health, and environmental protection.

## **Product Features**

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- High contrast color TFT LCD display support resolution up to SVGA 800 x 600. Compatible with IBM VGA, VESA standards.
- LED backlighting. Perfect for transportation application.
- Support analog S-Video & Audio input.
- Support NTSC or PAL Video-in function.
- High sensitive USB Touch Panel
- Support VESA 75 (75 x 75mm) standard mounting holes for wall mount or ARM mounting application.
- OSD cover to prevent unauthorized change of OSD
- 2Wx2 speakers

### **Standard model:**

- 8" LED backlight TFT liquid crystal monitor

## **Cleaning**

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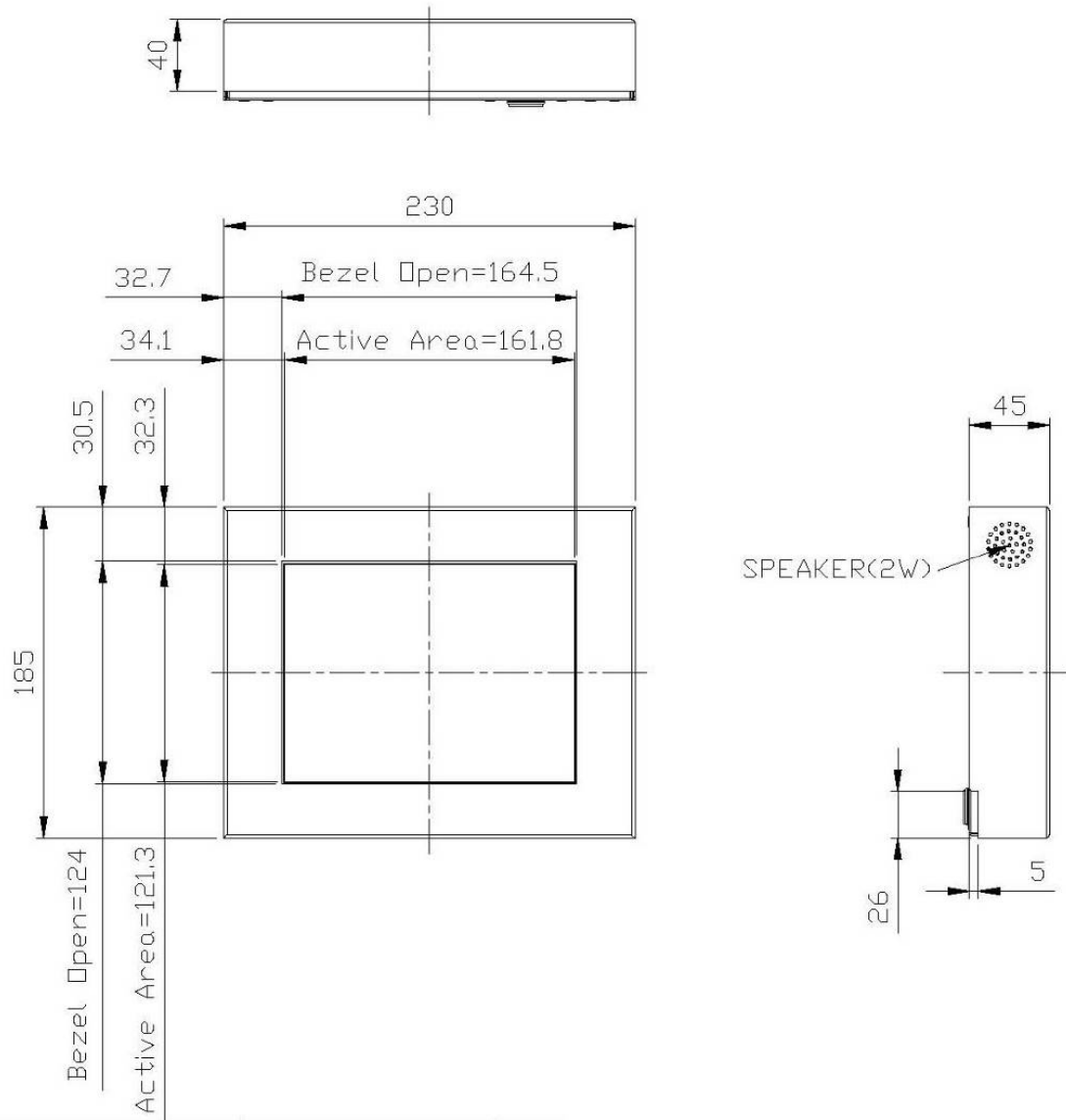
Gently wipe the screen with a clean camel hair lens brush, or a soft, clean, lint-free cloth. This removes dust and other particles that can scratch the screen.

Do not apply pressure to the screen surface when wiping it clean.

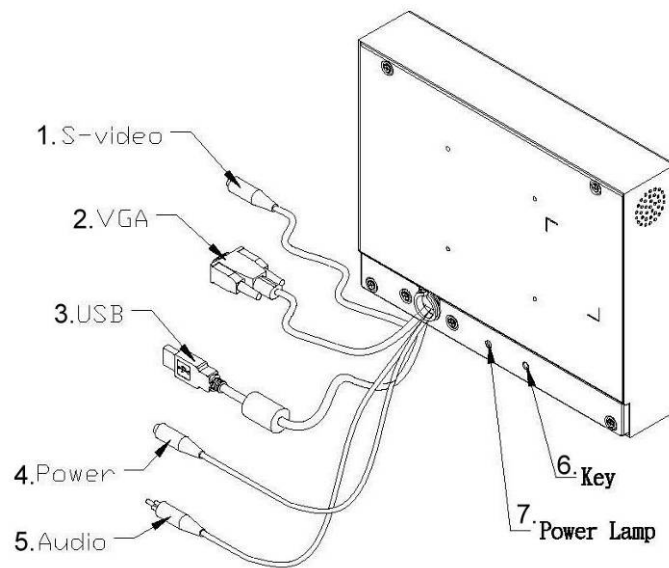
Do not pour or spray any liquid directly onto the screen or case of the LCD monitor.

Chemical cleaners have been reported to damage the screen or case of the LCD monitor.

# Mechanical Drawing



## Setting Up



- |                       |   |
|-----------------------|---|
| <b>1. S-Video</b>     | This can be connected with the S-video output of other device.  |
| <b>2. VGA Input</b>   | This can be connected to PC or other device.                    |
| <b>3. USB Touch</b>   | This can be connected to PC or other device.                    |
| <b>4. Power Cable</b> | This is for connecting the power adapter.                       |
| <b>5. Audio-in</b>    | This can be connected to PC or device (3.5mm.STEREO PLUG.BLACK) |
| <b>6. Hot-Key</b>     | Input source switching hot-key                                  |
| <b>7. Power Lamp</b>  | Power status instruction  |

### OSD Keyboard

- |                 |                     |               |                          |                      |  |                |  |                 |  |                     |                                    |
|-----------------|---------------------|---------------|--------------------------|----------------------|--|----------------|--|-----------------|--|---------------------|------------------------------------|
| <b>1.</b>       |                     | <b>2.</b>     |                          | <b>3.</b>            |  | <b>4.</b>      |  | <b>5.</b>       |  | <b>6.</b>           |                                    |
| <b>1. Power</b> | Turn ON/OFF monitor | <b>2. LED</b> | Power status instruction | <b>3, MENU/Enter</b> | 1. Open OSD Function Menu<br>2. Enter OSD function | <b>4. LEFT</b> | Move left to next icon or function as pressing this button | <b>5. RIGHT</b> | Move right to next icon or function as pressing this button. | <b>6. AUTO/EXIT</b> | 1. Auto tuning<br>2. Exit OSD menu |

## OSD menu


By pressing the “menu” button, you will see the below picture. Across from timing you will see resolution, frequency, and V-frequency of the panel. Version shows the firmware control version. These cannot be altered by the user.





There are 7 sub menus within the OSD user interface: Brightness, Signal Select, Sound, Color, Image, Tools, and Exit.


When you press the “menu” button, you enter the “Brightness” sub directory. In this directory, you will see 4 selections:




 press "right" key


 Press the “menu” once, to adjust the brightness. Press “left” to dim down the brightness to “0”, press “right” to increase the brightness to “100”

 **Ambient light sensor:** Press this Icon for auto dimming. (OPTION) To use this option, the Litemax ambient light sensor needs to have been installed

 **Potentiometer:** Navigate to this icon to adjust the VR function. (OPTION)

 **Ambient light sensor with OSD offset:** To set minimum brightness level based on ambient light.

 Press "right" key

 Press 'menu' once, to adjust minimum luminance to fit your application (OPTION)



**Contrast:** Press “menu” and “right” buttons to adjust the contrast from “0” to “100”. To adjust from “100” to “0”, press “menu” and the “left” buttons.



**Exit:** You can exit this sub menu back to normal screen.



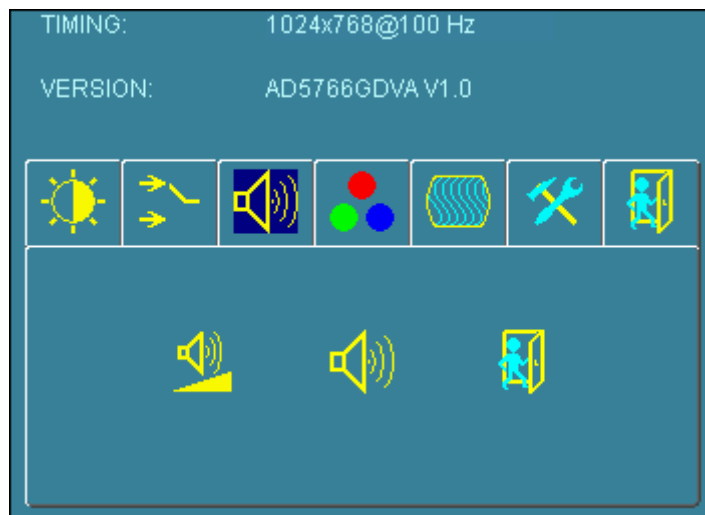
VGA **Analog:** RGB/VGA input

DVI **Digital:** DVI input

AV1 **AV1:** Composite input

S-Video **S-Video:** S-Video input

Exit **Exit:** You can exit this sub menu back to the beginning



There are 3 options for “Sound” sub page.



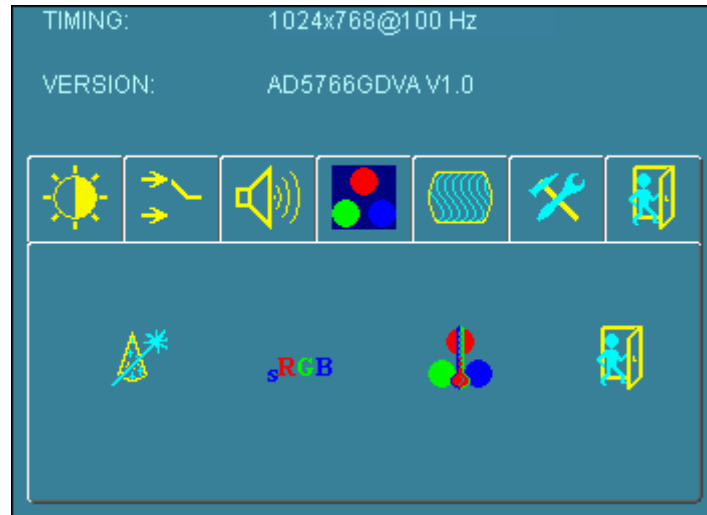
**Audio Volume:** Audio volume adjustment.



**UnMute/Mute:** You can mute the speaker by pressing this option.



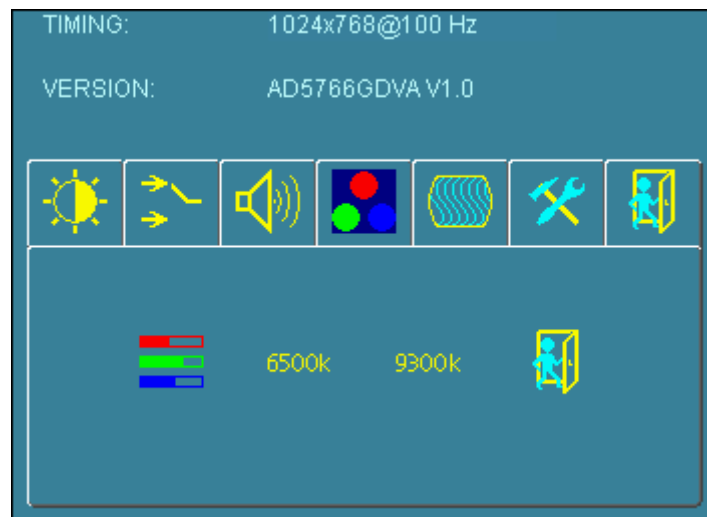
**Exit:** back to the beginning menu.



**Auto Color:** By navigating over to the “Auto Color” option, optimal color performance is invoked.



**sRGB:** Windows standard color setting



**Color Temperature:** You have 3 options in this selection



**Color Temperature User Define:** Default is 100 for “R”, “G”, and “B”.



**Color Temperature\_6500K:** Warm color scheme

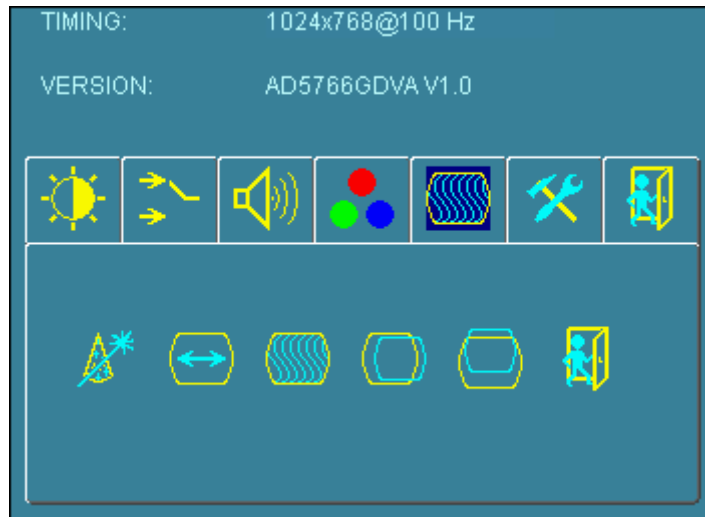


**Color Temperature\_9300K:** Cold color scheme



**Exit:** back to the normal screen.

Go to the "Image" page, and you will see the below picture



**Auto Adjust:** Choose this option and the AD5766 will adjust to the optimal horizontal and vertical frequency. You will see "Auto tune...." on the screen for around 3 seconds.



**Clock:** If you are not satisfied with the Auto tune result, you can adjust manually by pressing "Clock". Using this will make the image wider.



**Phase:** If "double images" appear around the characters, choose "Phase" to remove them..



**HPos:** You can shift the screen horizontally using this function.



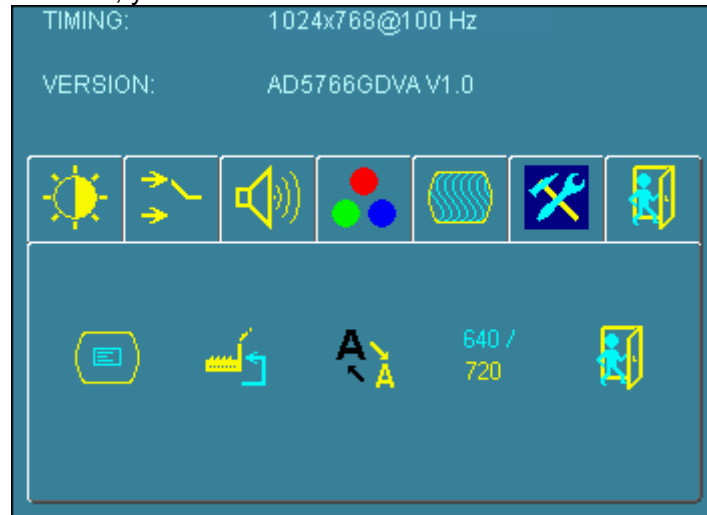
**Vpos:** You can shift the screen vertically using this function.



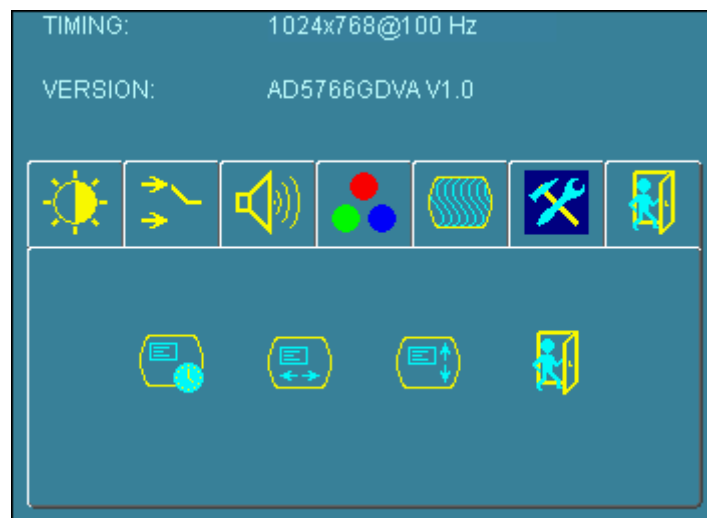
**Exit:** Back to normal screen.



On the "Tools" sub menu, you will see 5 icons.



**OSD Control:** Selecting this option, brings you to 4 more options:



**Osd\_time:** Select time for the OSD user interface to stay on screen, for 2 sec. to 16 sec. Default is 6 sec.



**Osd\_HPos:** Moves the OSD user interface horizontally on screen.



**Osd\_VPos:** Moves the OSD user interface vertically on screen.



**Exit:** back to main menu.



**Factory\_Reset:** By pressing this, the screen will revert to factory settings, and the previous settings will be deleted.



**Sharpness:** Sharpen characters.

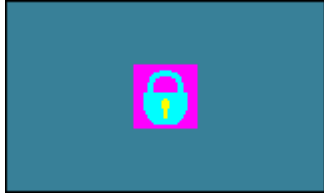
640 /  
720

**Dos\_mode/Gxf\_mode:** For some old programs which use 640x400 and 720x400 (DOS Mode and graphics mode), This option needs to be selected manually.

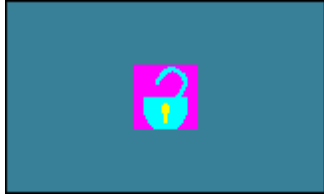


**Exit**

**OSD Lock Function:** It is possible to lock all the OSD buttons to prevent unauthorized changes to occur by pressing “Menu” and “right >” buttons simultaneously. You will see the “lock” icon below on the center of the screen for 3 seconds. If any button is pushed after the lock function is initiated, the below icon will appear on the screen.'



To release the OSD lock, press “Menu” and “Right >”. The below icon will appear on the center of the screen for 3 seconds. Now all OSD keys are active again.



## Power LED Display & Power Saving

### General Power Saving Mode

Mode	Power LED Color	Power Consumption	
On	Green	30W (max.)	
Stand by	Orange	<3W	<4W (USB model)
Suspend	Orange	<3W	<4W (USB model)
Off	Orange	<3W	<4W (USB model)

### Troubleshooting Tips

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In the event that you experience trouble with your Display, check the following items before contacting the dealer from whom the Display was purchased. The most common problems usually involve an incorrectly an incorrect connection from the Video Card to the Display. We recommend that you also consult your Video Card User's manual during the Troubleshooting Procedure. Do not exceed the maximum refresh rate recommended for the display.

Problem	Troubleshooting Tip
No image on display screen	<ol style="list-style-type: none"> <li>1. Check that power cord of the Computer has been connected securely into wall outlet or grounded extension cable or strip.</li> <li>2. Check that power switch of the Display has been pressed and LED on the front of Display is lit.</li> <li>3. Check that Video (Signal) cable from the Display has been securely and correctly connected.</li> <li>4. Check that Video Card is firmly seated in card slot of Computer motherboard.</li> <li>5. Check that the video input from the Video Card falls within the timing range.</li> </ol>
Abnormal image	<ol style="list-style-type: none"> <li>1. Check that the video input from the Video Card falls within the timing range.</li> <li>2. Check that Video (Signal) Cable from the Display has been securely and correctly connected to the Video Connector at the rear side of the Computer.</li> </ol>
Colors of image on screen are abnormal	<ol style="list-style-type: none"> <li>1. Check that Video (Signal) Cable from the displays has been securely and correctly connected to the 15-pin Video Connector at the rear side of the computer.</li> </ol>
Disturbances on Screen	<ol style="list-style-type: none"> <li>1. OSD adjustment is incorrect. Please consult</li> </ol>

	section for OSD screen adjustment procedures.
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**※Please contact your local authorized distributors /retailers if you run into other unsolved problems.**

## The Display Timing

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### Applicable video timing

The following table lists the better display quality modes that the LCD monitor provides. If the other video modes are input, the monitor will stop working or display unsatisfactory picture quality.

VESA Modes					
Mode	Resolution	Total	Nominal Frequency ±0.5KHz	Nominal Frequency ±0.5KHz	Nominal Pixel Clock (MHz)
DOS	720x400@70Hz	900x449	31.469	70.087	28.322
VGA	640x480@60Hz	800x525	31.469	59.940	25.175
	640x480@72Hz	832x520	37.861	72.809	31.500
	640x480@75Hz	840x500	37.500	75.000	31.500
SVGA	800x600@56Hz	1024x625	35.156	56.250	36.000
	800x600@60Hz	1056x628	37.879	60.017	40.000
	800x600@72Hz	1040x666	48.077	72.188	50.000
	800x600@75Hz	1056x625	46.875	75.000	49.500

## Specification

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Model No.	LO0832-SNB-A01
Display Area	228 (H) x 162 (V) mm
LCD Display	8" TFT active matrix
Display Colors	262k colors
Luminance	250 cd/m <sup>2</sup> (typ.)
Contrast Ratio	500:1 (typ.)
Resolution	800 x 600 (VGA)
Pixel Arrangement	RGB (Red, Green, Blue) vertical stripe
Pixel Pitch	0.2025 (H) x 0.0675 (V) mm
Viewing Angle	At the contrast ratio 10:1 : Horizontal: Left side 70° (typ.), Right side 70° (typ.) : Vertical: Up side 50° (typ.), Down side 70° (typ.)
Color Gamut	At LCD panel center 60% (typ.) [against NTSC color space] Ton (black 10%→white 90%)
Response Time	25 ms (Typ.)
Panel Interface	LVDS
Signal Connector	15 Pin D-sub 、 S-Video 、 Audio-in
Touch Panel	Resistive type with USB connector
F/R Control Button	Power Switch, Menu, Select (+,-), Auto
OSD Menu	Brightness, Contrast, H/V Position, Color, Phase, Clock, Language, Management
Power Consumption	11W (typ.)
Module Size	230(H) x 285 (V) x 45 (D) mm
Weight (Net)	2.0kg (typ.)

※Specifications subject to change without notice.

## Product Safety Precautions

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Follow all warnings and instructions marked on the product.

Do not use this product near water.

This display should be installed on a solid horizontal base.

When cleaning, use only a neutral detergent cleaner with a soft damp cloth.

Do not spray with liquid or aerosol cleaners.

Do not expose this display to direct sunlight or heat. Hot air may cause damage to the cabinet and other parts.

Adequate ventilation must be maintained to ensure reliable and continued operation and to protect the display from overheating. Do not block ventilation slots and openings with objects or install the display in a place where ventilation may be hindered.

This display should be operated from the type of power source indicated on the AC/DC adapter.

Do not install this display near a motor or transformer where strong magnetism is generated. Images on the display will become distorted and the color irregular.

Do not allow metal pieces or objects of any kind fall into the display from ventilation holes.

Do not attempt to service this unit yourself. Removal of the display cover may expose you to dangerous voltage or other risks. Refer all servicing to qualified service personnel.

Unplug this product from the wall outlet and refer servicing to qualified service personnel in the event that:

1. Liquid is spilled into the product or the product is exposed to rain or water.
2. The product does not operate normally when the operating instructions are followed.
3. The product has been dropped or the cabinet has been damaged.
4. The product exhibits a distinct change in performance, indicating a need for service.
5. Power cord or plug is damaged or frayed.

### **General specifications for the LCD**

The following items are neither defects nor failures.

- Response time, luminance and color gamut may be changed by ambient temperature.
- The LCD may be seemed luminance uniformity, flicker, vertical seam and/or small spot by display patterns.
- Optical characteristics ( e.g. luminance, display uniformity, etc. ) gradually is going to change depending on operating time, and especially low temperature, because the LCD has cold cathode fluorescent lamps.