



TFT-LCD Monitor

74-520007-000

TFT-LCD MONITOR

**TFT-LCD Monitor**

**USER'S MANUAL**

# Specifications

<b>LCD Display</b>	15" TFT LCD Panel	17" TFT LCD Panel
<b>Display Size</b>	304 (H) x228 (V) mm	337.9 (H) x207.3 (V) mm
<b>Pixel Pitch</b>	0.297 (H) x 0.297(V) mm	0.264 (H) x 0.264(V) mm
<b>Display Mode</b>	VGA 720x400 (70 Hz) VGA 640 x 480 (60/72/75 Hz), SVGA 800 x 600 (60/72/75 Hz) XGA 1024 x 768 (60/72/75 Hz)	VGA 720x400 (70 Hz) VGA 640 x 480 (60/72/75 Hz), SVGA 800 x 600 (60/72/75 Hz) XGA 1024 x 768 (60/72/75 Hz) SXGA1280 x 1024(60/72/75Hz)
<b>Max. Resolution</b>	XGA 1024 x 768	SXGA1280 x 1024
<b>Display Color</b>	16M	
<b>Contrast Rate</b>	450: 1	700: 1
<b>Brightness</b>	250 Cd/ m <sup>2</sup>	300 Cd/ m <sup>2</sup>
<b>Response</b>	16ms	8ms
<b>Viewing Angle (CR≥10)</b>	+40~-60° (U/D), +60~-60° (L/R)	+75~-60° (U/D), +75~-75° (L/R)
<b>Input Signal</b>	<b>Video</b>	R.G.B.Analog 0.7V
	<b>Sync</b>	TTL Positive or Negative
<b>Signal Connector</b>		DB15
<b>Front Control</b>		POWER, MENU, AUTO, UP/+, DOWN/-
<b>OSD</b>		“Volume” menu ,“Bright-Contrast”menu, “Color”menu, “Image Config”menu, “OSD Menu”, “Language”menu
<b>Plug &amp; Play</b>		DDC1 / 2B
<b>Audio System (optional)</b>		0.7W / Per channel
<b>Power Adapter</b>		Input AC 100-240V, 50-60Hz, Output DC 12V/4.0A
<b>Operating Conditions</b>	<b>Temperature</b>	5°C ~ 35°C (41°F ~95°F)
	<b>Humidity</b>	20% ~ 80%
<b>Storage Conditions</b>	<b>Temperature</b>	-20°C ~ 60°C (-4°F ~ 140°F)
	<b>Humidity</b>	10% ~90%
<b>Dimensions (WxHxD)</b>		370 x 355 x 190mm
<b>Weight (Net)</b>		4Kg
<b>Regulations</b>		FCC, CCC, CE

● Specifications are subject to change without notice.

## INDEX

<b>Precautions</b> .....	2
<b>Federal Communication Commission Radio Frequency International Statement</b> .....	3
<b>Canadian Department Of Communications Compliance Statement</b> .....	3
<b>Product Description</b> .....	4
<b>Package Contents</b> .....	4
<b>Product Features</b> .....	4
<b>Cleaning</b> .....	4
<b>Taking a Look</b> .....	5
<b>Front View</b> .....	5
<b>Rear View</b> .....	6
<b>Computer connecting</b> .....	6
<b>Controls and Adjustment</b> .....	6
<b>OSD Control Options</b> .....	7
<b>Power LED Display &amp; Power Saving</b> .....	11
<b>Troubleshooting</b> .....	11
<b>Specifications</b> .....	12

## Precautions

- Read all of these instructions and save them for later use.
- Follow all warnings and instructions on the product.
- Product
  - Do not cover or block the vent holes in the case.
  - Do not insert sharp objects or spill liquid into the LCD monitor through cabinet slots. They may cause accident fire, electric shock or failure.
  - Disconnect the power plug from the AC outlet if you will not use it for an indefinite period of time.
  - Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltage points or other risks.
  - Do not touch the screen directly with your fingers. You may damage the screen, and oil from your skin is difficult to remove.
  - Do not apply pressure to the screen. The LCD is very delicate.
- Power adapter
  - Use the type of power adapter, which supplies from manufacturer for safety and electronic issue.
- Plugs
  - Do not remove any of the prongs of the monitor's three-pronged power plug.
  - Disconnect the power plug from the AC outlet under following conditions:
    - ◆ If you will not use it for an indefinite period of time.
    - ◆ When the power cord or plug is damaged or frayed.
    - ◆ If the product does not operate normally when the operating instructions are followed. Adjust only those controls that are covered by the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.
    - ◆ If the product has been dropped or the cabinet has been damaged.
    - ◆ If the product exhibits a distinct change in performance, indicating a need for service.
- Power and extension cords
  - Do not allow anything to rest on the power cord.
  - Do not locate this product where persons will walk on the cord.
  - Use the proper power cord with correct attachment plug type. If the power source is 120 V AC, use a power cord that has UL and C-UL approvals. If the power source is a 240 V AC supply, use the tandem (T blade) type attachment plug with ground conductor power cord that meets the respective European country's safety regulations, such as VDE for Germany.
  - Do not overload wall outlets or power cords. Ensure that the total of all units plugged into the wall outlet does not exceed 10 amperes.
  - Ensure that the total ampere ratings on all units plugged into the extension cord is not above the cord's rating.
  - If the power supply cord, which came with your monitor, is to be connected to the PC instead of the wall outlet, this equipment is to be used with UL approved computers with receptacle rated 240V AC, 4.0A (minimum).
  - The socket outlet shall be installed near the LCD monitor and shall be easily accessible.

## Power LED Display & Power Saving

### General Power Saving Mode

When the power switch are switch **on**, this LED lights in **green**.

The LED indicates the different power status with altered LED colors when monitor operates in different modes (see following table).

Mode	Power LED Color	Power Consumption	H.V. Sync.
On	Green	<40W	+ / +
Standby	Red	<5W	- / +
Suspend	Red	<5W	+ / -
Off	Off	<5W	- / -

We recommend to switch off the monitor when it is not use for quite a long time.

## Troubleshooting

### The monitor does not respond after you turn on the system.

- Check if the Power Switch of monitor is turned on.
- Turn off the power and check the monitor's power cord and signal cable for proper connection.

### The characters on the screen are dim.

- Refer to the Controls and Adjustments section to adjust the brightness.

### The screen is blank.

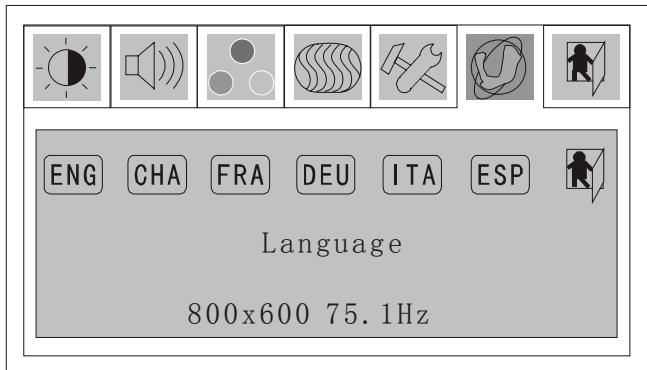
- During operation, the monitor screen may automatically turn off as a result of Power Saving feature. Press any key to see if the screen comes back.
- Refer to the Controls and Adjustments section to adjust the brightness.

### The screen flashes when it's initialized.

- Turn off the monitor and turn it on again.

6. “Language” menu.

To choose OSD display language. There are 6 choices: English, Chinese, French, German, Italian, Spanish.



7. “Exit” :Exit current menu.

■ Environment

- Place the monitor on a flat and leveled surface.
- Place the monitor in a well-ventilated place.
- Keep the monitor away from: overly hot, cold or humid places, places directly under sunlight, dusty surroundings, equipment that generate strong magnetic fields.

**Federal Communication Commission Radio Frequency International Statement**

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 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 / 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.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

*Notice:* The use of non-shielded interface with this equipment is prohibited.

If necessary, the user should consult the dealer or an experienced radio / television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful. This booklet is available from the U.S. Government Printing Office Washington DC, 20402, Stock No. 004-000-003454.

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modification of this equipment. It is the responsibility of the user to correct such interference.

**Caution: To meet FCC limits for a Class B computing device, a shielded signal cable should be used.**

**Canadian Department Of Communications  
Compliance Statement**

This equipment does not exceed Class B limits per radio noise emissions for a digital apparatus, set out in the Radio Interference Regulation of the Canadian Department of Communications. Operation in a residential area may cause unacceptable interference to radio and TV reception requiring the owner or operator to take whatever steps necessary to correct the interference.

## Product Description

Congratulations on your purchasing this new generation of monitor. Your LCD monitor incorporates high quality display into a small light weighted module. It has power-saving capabilities and emits no X-ray radiation. You will certainly benefit from this monitor in lots of ways to name some of them, comfort, safety, health, and environmental protection.

This LCD monitor incorporates color active matrix thin-film-transistor (TFT) liquid crystal display to provide superior display performance. A maximum resolution of XGA 1024X768 (15") or SXGA1280X1024 (17") is ideal for displaying graphics and images. Other outstanding designs that enhance this LCD monitor's performance are Plug & Play compatibility, and OSD (On Screen Display) controls.

## Package Contents

Included with your LCD monitor are following items:

- TFT liquid crystal monitor
- Signal cable
- Power Adapter
- Power cord
- User's manual
- Audio cable (optional)
- Serial cable or USB cable(optional)

## Product Features

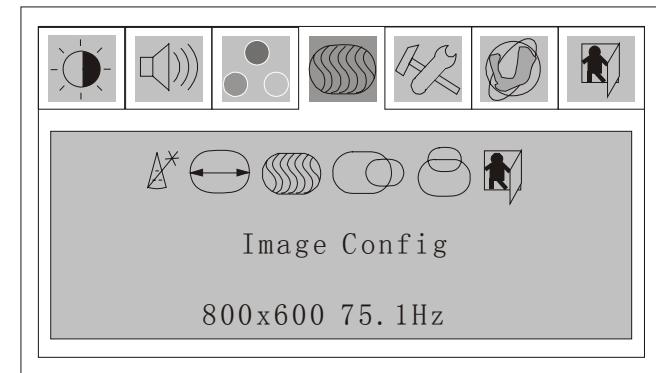
- High contrast color TFT LCD display support resolution up to XGA 1024X768 (15") or SXGA1280X1024 (17") . Compatible with IBM VGA and VESA.
- Power management system conforms to VESA DPMS standard.
- Universal power adapter.
- Support DDCI/2B for Plug & Play compatibility.
- Advanced OSD control for picture quality adjustment.
- Detachable stand for wall-mounting application.

## Cleaning

- 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.

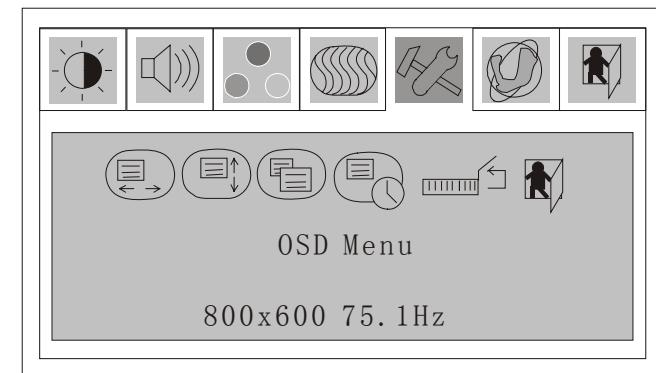
## 4. "Image Config" menu

- **Auto Config**  To adjust the geometrical parameters automatically for optimal display status.
- **Clock**  To adjust the horizontal size of the image
- **Phase**  To decrease the horizontal interference.
- **Horizontal**  Adjust the horizontal position of the image.
- **Vertical**  Adjust the vertical position of the image.



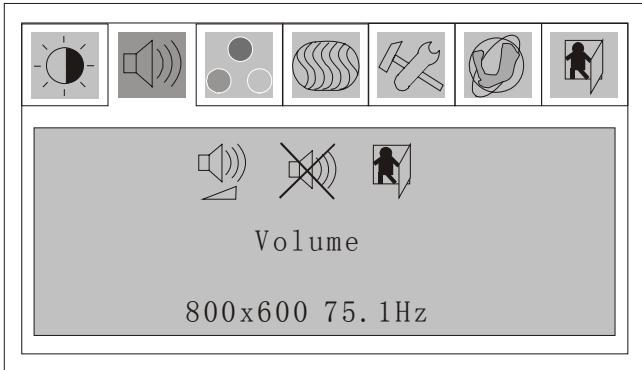
## 5. "OSD Menu"

- **OSD H-Position**  To adjust the horizontal position of OSD.
- **OSD V-Position**  To adjust the vertical position of OSD.
- **OSD Size**  To adjust the size of OSD menu
- **OSD Time Out**  To adjust the time out of OSD display.



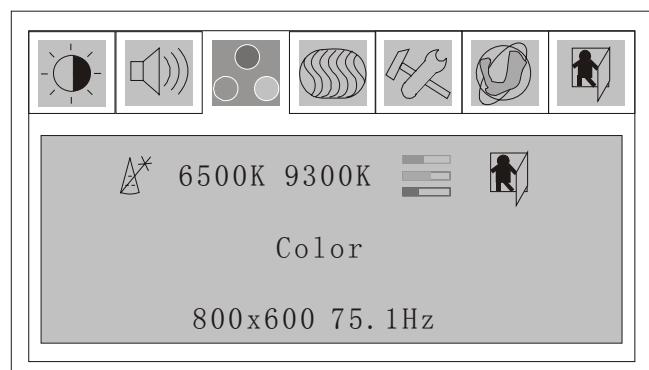
2. "Volume" menu

- **Volume**  Adjust volume.
- **Mute**  Adjust volume to zero.



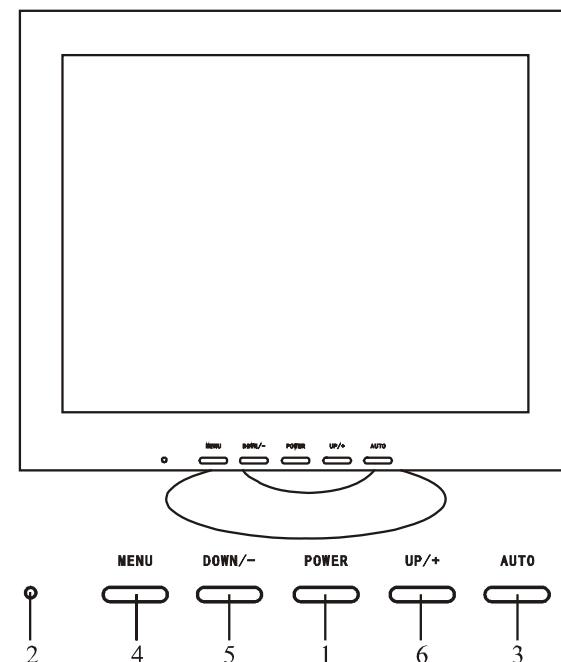
3. "Color" menu, to adjust the color of LCD

- **Auto Color**  Adjust the color automatically.
- **6500K** Cold color
- **9300K** Warm color
- **User color** 



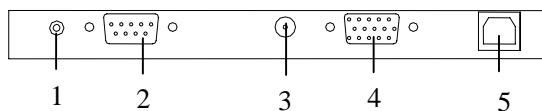
**Taking a Look**

**Front View**



1. **Power switch** Pressing this button turns the display system power on or off.
2. **Power LED** This LED indicates different status when this unit operates in different.
3. **AUTO** Press this button to make LCD monitor adjust the related parameters automatically for optimal display status when the OSD is not popped up , or enter the OSD control option when the OSD is popped up.
4. **MENU** To display the OSD menu , or exit current menu and return upper menu.
5. **DOWN/-** To select the OSD control option or decrease the value of the selected OSD control option when the OSD is popped up. Or press it directly to adjust the Brightness.
6. **UP/+** To select the OSD control option or increase the value of the selected OSD control option when the OSD is popped up. Or press it directly to adjust the Contrast.

## Rear interface



1. **Audio In** This can be connected to the audio-out connector of the computer.(Optional)
2. **Serial Port** This can be connected the touch panel to the COM port of PC. (Optional)
3. **Power Connector** This is for connecting the power adapter.
4. **Signal Connector** This can be connected with the D-sub 15 pin signal connector.
5. **USB Connector** This can be connected the touch panel to the USB port of PC.(Optional)

## Computer connecting

1. Connect one end of the **power adapter** to the monitor and the other end to the connector of the power cord.
2. Connect one end of the **signal cable** to the rear side of computer and the other to the LCD monitor. Tighten by turning clockwise the two thumb screw to ensure proper grounding.
3. Connect one end of the **audio cable** to **line out** port of computer and the other to the **audio in** the LCD monitor.
4. Pressing the **power button** on front panel turns the display system power on.

## Controls and Adjustment

### Adjusting with the OSD Control

- To Display and Select the OSD Functions:



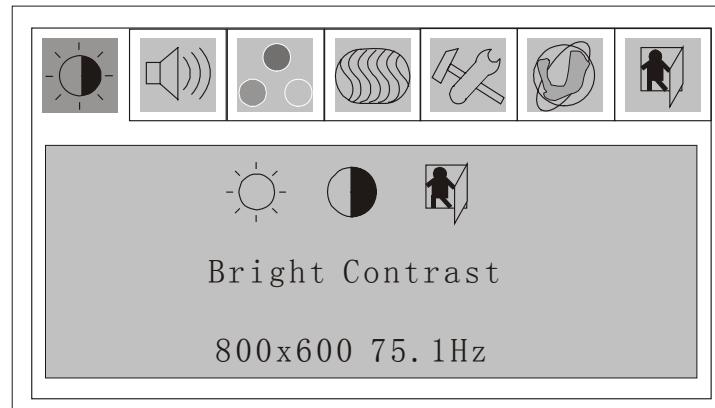
Pressing  **MENU** key once pops up the OSD function main menu, and then pressing  **UP/+** or  **DOWN/-** a second time to select the different OSD control option.

- When the icon of you will adjust is highlighted, pressing  **AUTO** key to make it to be selected, and then pressing  **UP/+** or  **DOWN/-** to changes the value of the selected OSD control option. After adjusting values, press  **MENU** key to exit current OSD control option, the monitor will automatically save the changes.

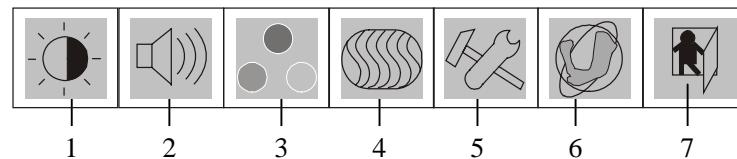
NOTE: The OSD screen will disappear if no input activities are detected for 10 seconds.

## OSD Control Options

### Menu display



OSD Main Menu



1. “Bright-Contrast” menu
  - **Brightness** Adjust brightness.
  - **Contrast** Adjust contrast.