TFT-LCD MONITOR

TFT-LCD Monitor

USER'S MANUAL

Button lock: Please press "+" key and "power" key, monitor displays "key locked" and buttons are locked.

Button unlock: Please press "-" key and "power" key and Hold for at least 3 seconds.

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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 foe 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 you 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 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.

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- 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 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 manufacture 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.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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 (TFF) liquid crystal display to provide superior display performance. 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 LCD monitor   1pc
- DB9 Signal cable   1pc
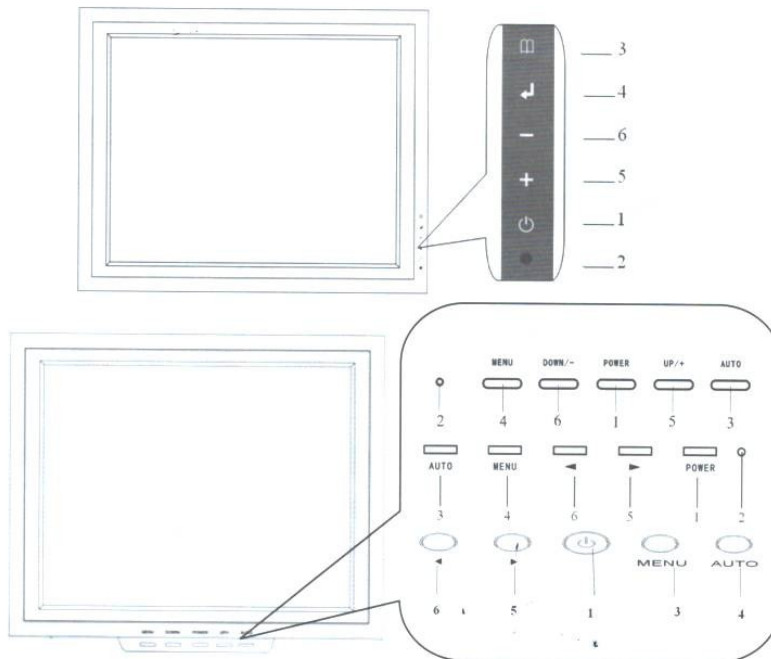- Power Adapter   1pc
- User's manual   1pc

Product Features

- High contrast color TFT LCD display.
- Power management system conforms to VESA DPMS standard.
- Universal power adapter.
- Advanced OSD control for picture quality adjustment.
- Detachable stand for wall-mounting application.

Cleaning

- Turn off the monitor and the computer.
- 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.

Taking a Look
Front View

1. **Power switch**   Turns the monitor on and off.
2. **Power LED**   This LED indicates different status when this unit operates in different color.
3. **AUTO**   When OSD is active, closes setting screens and exits OSD. When OSD is inactive, performs an auto-adjustment to optimize image quality.
4. **MENU**   When OSD is active, acts as an Enter (Select) key to select setting screen options. When OSD is inactive, opens OSD.
5. **UP/+** When OSD is active, navigates OSD settings menu and adjusts settings. When OSD is inactive, press it directly to increase the Volume.
6. **DOWN/−** When OSD is active, navigates OSD settings menu and adjusts settings. When OSD is inactive, press it directly to decrease the Volume.

Rear interface

1.**DB9 Signal Cable**   This signal cable can be connected to computer.
2.**Power Connector**   This is for connecting the power adapter.
3. **Data** This connector are only used for manufacturer internal using.

Computer connecting

1. Connect one end of the **signal cable** to the rear side of device and the other to the LCD monitor. Tighten by turning clockwise the two thumb screw to ensure proper grounding.
2. Connect one end of the **power adapter** to the monitor and the other end to the connector of the power cord.
3. 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.
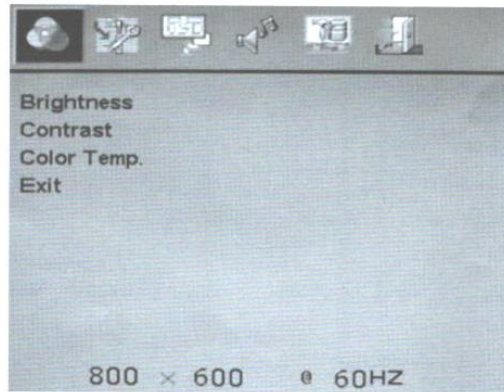
●   When the icon of you will adujust is highlighted, pressing **MENU** key to make it to be selected, and then pressing **UP/+** or **DOWN/−** to changes the value of the selected OSD control option. After adjusting values, press **AUTO** key to exit current OSD control option, the monitor will automatically save the changes.

NOTE: The OSD screen will disappear if no input activities are detected for 15 seconds.

OSD Control Options

1．"Brightness & Color Temp." menu
- **Brightness**   Adjust brightness.
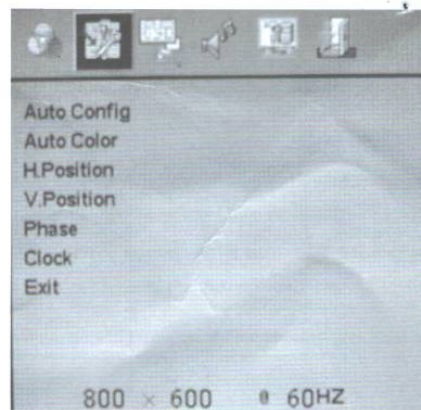- **Contrast**   Adjust contrast.

- "Color Temp." Sub-menu，to adjust the color of LCD
  - **9300K**   Cool color.
  - **6500K**   Standard color.
  - **5800K**   Warm color.
  - **USER**-DEFINED

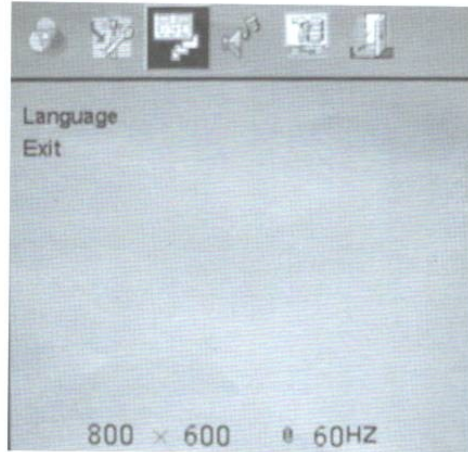You can adjust the values of color gain (RED,GREEN OR BLUE).

3. "Image Config" menu

- **Auto Config**   To adjust the geometrical parameters automatically for optimal disply status.
- **Auto Color**   Adjust the color automatically.
- **H.Position**   Adjust the horizontal position of the image.
- **V.Position**   Adjust the vertical position of the image.
- **Phase**   To decrease the horizontal interference.
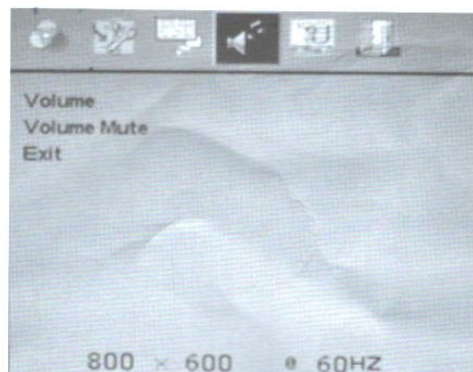- **Clock**   To adjust the horizontal size of the image.

3. "Language" menu.

To choose OSD display language. There are 8 choices: English, Russian, Simplified Chinese, Traditional Chinese, Spanish, Italian, Francis and Deutsch.
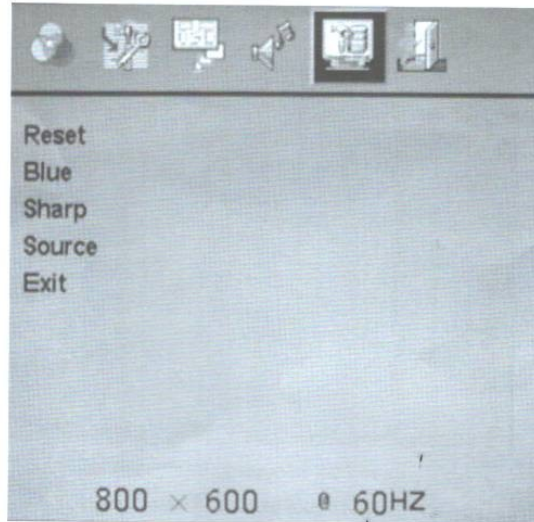

4. "Volume Menu"
- **Volume**   To adjust volume.
- **Mute**   To adjust volume to ZERO.

5. "Tools" menu.
- **Reset**   Factory reset.
- **Blue**   To display blue screen when no signal.
- **Sharp**   To adjust image sharpness.

6. "Exit" :Exit current menu.

Power LED Display & Power Saving
General Power Saving Mode

When the power switch is 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	<24W	+ / +
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.

■ Specifications

LCD Display		8.0" TFT LCD Panel	10.4" TFT LCD Panel	12.1" TFT LCD Panel	15" TFT LCD Panel
Display Size		162 (H) x121.5 (V) mm	211 (H) x158 (V) mm	245.8 (H) x184.3 (V) mm	304 (H) x228 (V) mm
Pixel Pitch (mm)		0.2025 (H) x 0.2025 (V)	0.264 (H) x 0.264(V)	0.3075 (H) x 0.3075(V)	0.297 (H) x 0.297(V) mm
Display Mode		CGA 640x200 (60Hz) MDA 720x350 (50Hz) EGA 640x350 (60Hz)			
Display Color		262k			16M
Contrast Rate		400: 1	300: 1	250: 1	500: 1
Brightness		200 Cd/ m2	350 Cd/ m2	250 Cd/ m2	250 Cd/ m²
Response		30ms	40ms	25ms	8ms
Viewing Angle (CR≥10)		+50~-65° (U/D), +65~-65° (L/R)	+35~-35° (U/D), +50~-50° (L/R)	+30~-30° (U/D), +50~-50° (L/R)	+70~-60° (U/D), +75~-75° (L/R)
Dimensions (WxHxD)		210 x 215 x 130mm	280 x 280 x 130mm	320 x 310 x 130mm	370 x 355 x 190mm
Weight (Net) (without touchscreen)		0.7Kg	2.1Kg	2.8Kg	4Kg
Input Signal		MDA,CGA,EGA (DB9)			
Signal Connector		9-pin D-type connector			
Front Control		POWER, MENU, AUTO, DOWN/-, UP/+			
OSD		"Bright & Color Temp" menu , "Image" menu, "Language" menu, "Volume" Menu, "Tools" menu			
Plug & Play		DDC1 / 2B			
Power Adapter		Input AC 100-240V, 50-60Hz, Output DC 12V/1.5A (min)			Input AC 100-240V, 50-60Hz, Output DC 12V/2.0A (min)
Operating Conditions	Temperature	5℃~ 35℃ (41℉~95℉)			
	Humidity	20%~ 80%			
Storage Conditions	Temperature	-20℃~ 60℃ (-4℉ ~ 140℉)			
	Humidity	10% ~90%			
Regulations		FCC, CE			

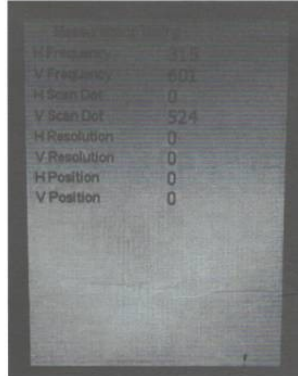● *Specifications are subject to change without notice.*

TTL MONITOR

MANUAL

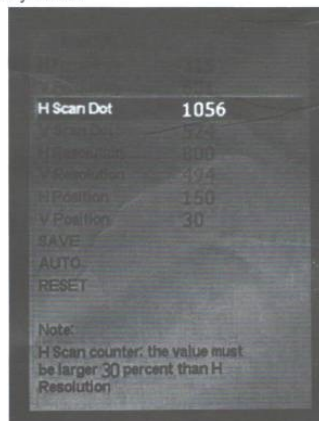Ver 1.0.2

Chapter 1. Factory Menu:

Please connect the signal cable to the device. Then connect the monitor's power. DO NOT press the POWER button to turn the monitor on. First press and hold the MENU button. At the same time press the POWER button until the monitor turns on. The following OSD picture "Measurement Timing" will appear on the screen. (If OSD menu does not appear, please press the MENU button).

If a blue screen and an OSD menu appear as in Figure 2.2, you will need to manually create the display mode.
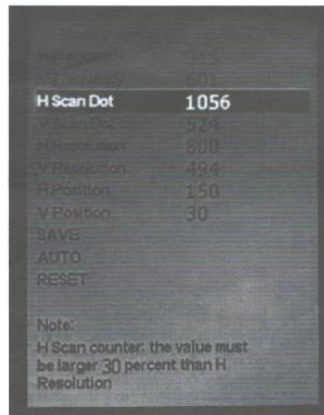

Chapter 2. Create Display mode.

Press the MENU button to enter "Modify Timing". Create the display mode:

H Scan Dot: Horizontal scan dots. Please enter a number between 900-1000.

H Resolution: Adjust Horizontal resolution.
V Resolution: Adjust Vertical resolution.
H Position: Adjust Horizontal position.
V Position: Adjust Vertical position.

H Scan Dot	1056
V Scan Dot	524
H Resolution	800
V Resolution	494
H Position	150
V Position	30
SAVE	
AUTO	
RESET	

Note:
H Scan counter: the value must
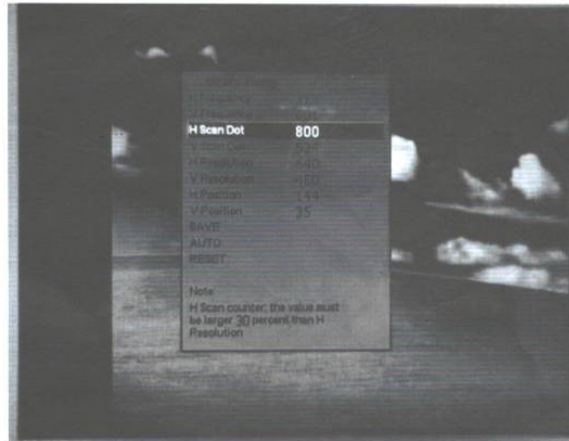be larger 30 percent than H
Resolution

For your convenience, a variety of common values have been programmed
into the timing table.

To save the setting, press the MENU button to select. Then press the + button
to save. The screen will go black then the image will appear.

If the image is not positioned correctly after AUTO, press MENU, press the +
button. The image will be automatically corrected.
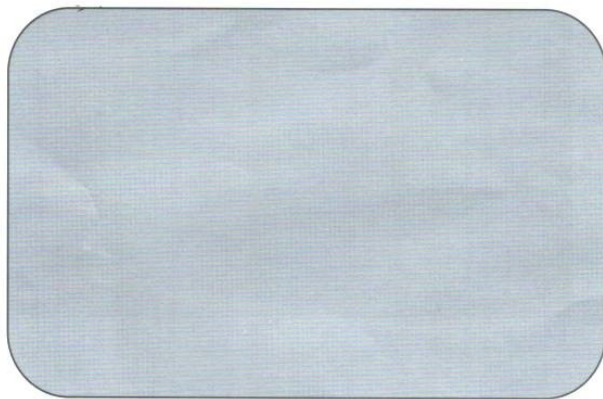
You can also manually adjust the image.

Chapter 3.　EXIT Factory MENU：

When you complete the parameter adjustments, please press the POWER button to exit the factory menu.

Chapter 4.　Reset Factory Default：

a. Please turn off monitor.
b. Remove the signal cable.
c. Then press and hold the MENU button, at the same time press the POWER button until the monitor turns on.
d. Select "RESET" item, reset factory default.

TFT-LCD Monitor

74-520030-00Q