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Instructions for Federal Communications Commission (FCC) Compliance

This device has passed the tests stipulated by Article 15 of FCC Compliance and conforms to the limitations and provisions for Class-B digital equipment. The restrictions are formulated to prevent the harmful interference with radio frequencies produced by or used by household appliances. This unit will emit electromagnetic waves during operation and therefore, it may interfere with the radio-frequency signal if it is not configured and operated as directed in the user manual. It is not guaranteed that this device will not cause interference with specific equipment--in particular when it is being powered on or off. In case this device interferes with TV sets or wireless networking equipment, the user may prevent the interference by using one or several of the methods stated below:

- Relocate the reception antenna of the equipment
- Increase the distance between this device and the equipment
- Connect the power plug of this device and that of the equipment into sockets for different lines
- Contact an experienced technician familiar with wireless networking equipment or TV sets

In order to satisfy the limitations regarding electromagnetic emissions and to prevent interference with TV sets and/or wireless networking equipment nearby, the accessories provided with this unit should be used. This device should not be modified without the authorization or confirmation of the manufacturer.

CE Statement

This is to state that this 15" LCD monitor complies with the following compulsory regulations:

- **Safety**

This appliance complies with LVD-73/23/EEC Low Voltage Directive (EN60950-1:2001) requirements:

- Electrical shock protection
- Energy risk protection
- Fire hazard protection
- Hazardous electromagnetic emissions protection
- Protection against hazardous substances produced during normal operation or malfunction
- Mechanical and moving parts hazards

- **EMC**

This device complies with the 89/336/EEC requirements.

Electromagnetic interference generated by this device is less than that produced by radios or other long-distance communication equipment. During normal operation, interference effects should be at an acceptable level; this device also incorporates a sound internal anti-interference design. When correctly configured and maintained, it should operate normally in typical home or office environments.

EMI: Radio interference characteristics are in conformity with EN55022:1998 + A1: 2000 + A2: 2003 Class B *Limit Value & Test Method for Radio Interference Characteristics for Information Technology Equipment*

A) Electromagnetic emissions

B) Conducted emission

EN61000-3-2:2000; Class A Harmonic Current Emission

EN61000-3-3:1995+A1:2001 Voltage Fluctuation & Flicker

EMS: Anti-interference levels are in conformity with EN55024:1998 +A1:2001 + A2: 2003 class B

Limit Value & Test Method for Anti- Interference Level for

Information Technology Equipment

IEC61000-4-2:1995+A1: 1998+A2:2000	Electrostatic (ESD)
IEC61000-4-3:2002+A1: 2002	Immunity to RF field strength
IEC61000-4-4:2004	Electrical fast transient
IEC61000-4-5:1995+A1 :2000	SURGE
IEC61000-4-6:2003	CS
IEC61000-4-8:1993+A1:2000	Magnetic-immunity
IEC61000-4-11:2004	Voltage Dips/Interruptions

Safety Instructions

1. Please carefully read this manual before operating the device and keep it available for future reference.
2. To avoid the danger of the monitor falling and thereby possibly causing injury and/or serious damage to the monitor itself, do not place it on unstable cars or desks. Be careful to avoid placing any stress on the LCD screen during handling.
3. Do not place this monitor in areas that are wet or where water or other liquids may come in contact with it, such as bathrooms, kitchens, wet floors, near washing machines or by swimming pools.
4. Remove the power plug from the electrical socket before cleaning. No water-containing cleaning agent should be used to clean the screen, but only cleaning agents formulated specifically for cleaning LCD screens. Do not put any liquid cleaning agent directly on the screen, but put it on a soft cloth first and then gently apply the cloth to the screen.
5. In order to guarantee reliable operation and adequate heat dissipation, do not cover or block vent holes on the monitor. Do not put the monitor close to heat sources. Do not place the monitor on furniture such as a bookshelf, unless sufficient ventilation is available.
6. A 3-pin grounding plug is provided for this monitor. In order to guarantee normal operation and safety of this unit, this plug should be used with a matching grounded power socket.
7. Please follow all warnings and instructions that accompany the monitor.
8. Please pay special attention to power supply overloads, as electrical shock or fire may occur.
9. Do not place anything on the power cord. Do not hang the power cord over an area where people or objects may pass.
10. In case the monitor is not be used for an extended period, turn off power to avoid the possibility of short circuits caused by lightning.
11. In order to avoid electrical shock or fire risks, do not insert any object through any openings in the monitor's enclosure. Do not allow any liquid to come in contact with the monitor.
12. In case of any abnormal noise or odor caused by incorrect operation, turn off power immediately and contact a professional technician. Do not attempt to repair this monitor by yourself, as electrical shock may occur when opening the back cover or accessing internal components.
13. If any of the following conditions occurs, turn off power and contact a repair service provider:
 - 1) the power cord is damaged or worn;
 - 2) liquid has gotten into the monitor, or the monitor has experienced immersion or wetting;
 - 3) the monitor has fallen;
 - 4) the monitor's performance shows obvious changes;
 - 5) the monitor fails to work normally when correct procedures are followed. In that case, please make any adjustments in accordance with instructions supplied with the monitor; do not attempt any changes to established procedures, as further damage may occur, making successful repair of the monitor more difficult.
14. In case parts need to be replaced, you must use identical parts or those supplied by our certified manufacturers. Any other parts used without our authorization may result in electrical shock or fire risk.

Introduction

General Specifications

This high-quality 15" monitor is based on a liquid crystal display (LCD) with exceptional resolution and features multi-frequency intelligent scanning in the range of 30 to 60 KHz.



Caution: In order to maintain this monitor in optimal working condition, please carefully read this manual before use.

Monitor Characteristics

- 15" viewable-area screen
- 1024 x 768 resolution (subject to panel specification)
- Wide viewing angle (subject to panel specification)
- Color temperature settings: 9300K, 6500K, 5500K, user-defined
- Low power consumption
- Automatic power switching: AC 100~240V, 50~60Hz.
- User image adjustments: brightness, contrast, horizontal/vertical position, phase adjust, clock adjust, language, color, recall, exit, volume
- Choice of eight languages: English, German, French, Spanish, Italian, Russian, Traditional Chinese and Simplified Chinese.

Package includes:

- 15" LCD monitor
- Power cord
- Instruction manual
- Audio cable (optional)

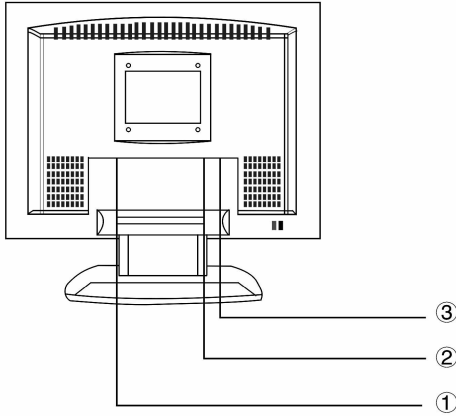
Caution: Please keep the original packing materials including cartons for possible future use in shipping or moving the monitor.

Precautions

- Please turn off power before cleaning this monitor. Use a soft cloth with clean water and lightly wipe the LCD screen surface.
- This monitor operates at a high voltage and is potentially hazardous. Only qualified technicians are permitted to assemble or disassemble the device or access internal components.

Installation

Terminal Connection



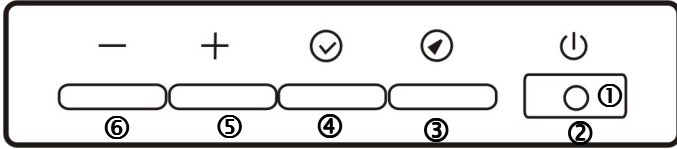
NO.	Terminal	Function
①	AC-In	AC power input 100~240V, 50/60Hz
②	VGA-In	To PC VGA
③	Audio-In	Audio input

Pre-installation Check

Please check the label on the nameplate on the back cover first. Input voltage between 100V and 240V should be used with this monitor. Also please make sure this monitor and your main system (computer) is powered off before attaching any connectors.

Operation

Front Panel Buttons



No.	Symbol	Function
①		Power indicator
②		Turn the power on or off
③		1. Auto-adjust 2. Select the next OSD icon up
④		1. Show the main OSD menu 2. Select the next OSD icon down
⑤	+	1. Show the volume OSD menu 2. Increase a function's value. 3. Move to the next function () right
⑥	-	1. Show the mute OSD. 2. Decrease a function's value. 3. Move to the next function () left

Adjust Screen (auto-save)

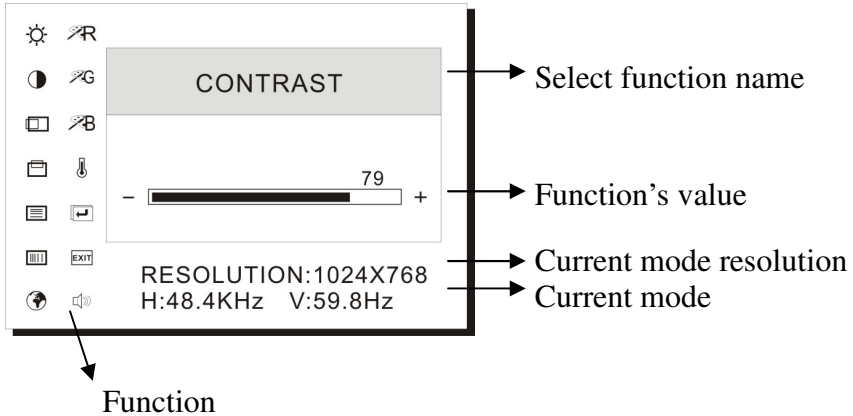
1. Press the button to display the AUTO adjust OSD menu.
2. Press the button to display the main OSD menu.
3. Select the desired function menu, by pressing the or button.
4. Push the + or - button, to increase or decrease the value and change the setting.
5. Adjust the value or return to the main OSD menu by pushing the Exit button.
6. The OSD menu will close automatically after 8 seconds of inactivity.

Adjust Volume

Press the + or - button to adjust volume without accessing the OSD menu.

OSD Menu

Main OSD Menu



OSD Sub-menu















RGB NO INPUT SIGNAL

1. If this warning appears, please check the connector. If it is bent or damaged, the signal cable may be affected.
2. If the monitor is in “sleep” mode to save power, please move the mouse or press any key to “wake” it and return to working mode.
3. Please check relevant diagrams, and make sure the monitor has been properly configured.
4. Please check the signal cable. If the type is incorrect, please use the cable that came with the monitor.

SIGNAL OVER RANGE

This warning indicates that the input signal frequency does not match those supported by this monitor. For this model, horizontal frequency must be in the range of 30 ~ 60 KHz and vertical frequency in the range of 55~75Hz. Please make sure your input signal is within these ranges.

OSD Icon Overview

Icon	Function	Description
	Brightness	Adjusts brightness
	Contrast	Adjusts the ratio of white to black
	H. Position	Adjusts horizontal position
	V. Position	Adjusts vertical position
	Phase	Adjusts horizontal flicker
	Clock	Adjusts vertical noise and correct horizontal size
	Language	Selects the display language
	Color R	Adjusts red gain
	Color G	Adjusts green gain
	Color B	Adjusts blue gain
	Color Temperature	Sets the screen to use 9300K, 6500K, 5500K, or a user-defined value
	Recall	Reset user changed and restores factory setting
	Exit	Exits the main OSD menu
	Volume	Adjusts volume

Technical Data

Model No.	N592S
Input Signal	Analog RGB 0.7Vp-p /75 ohm, TTL Sync
Scan Frequency	H: 30~60 KHz V: 55~75 Hz 640x350, 720x400, 640x480, 800x600, 832x624, 1024x768
RGB Mode OSD	Brightness, Contrast, H./V. position, Phase Adjust, Clock Adjust, Language, Volume, Color, Recall, Exit Color: 9300K, 6500K, 5500K, User-Defined Language: English , Chinese-T, Chinese-S
Audio (Option)	1W*2 THD: 3% Input 0.7 Vrms
Power Adapter Input	AC 100~240V, 50~60 Hz Current: 1.0A
Power Consumption	30 W (max) / Standby under 1W
Operation Environment	Temperature: 0~40°C Humidity: Less than 80% Altitude: To 10,000 feet
Plug & Play	DDC 2B
Power Management	VESA DPMS
Dimensions (W x D x H) D: Thickness	405 x 125 x 385mm
Weight (w/ Stand)	3.2 kg
Terminal	D-Sub 15 VGA, AC power jack, audio jack (optional)
Control Button on front frame	Power, Auto-Adjust, Menu, Up (+), Down (-)
Accessories	AC power cord / user manual / audio cable (Option)
Export carton with monitor & accessories	
Dimensions W x D x H	396 x 118 x 370mm
Weight (G.W.)	4.0 kg

*** The above specifications may differ depending on the actual LCD panel utilized and are subject to change without prior notice.

Energy-saving Modes

When this product is operated, it complies with relevant power-saving measures stipulated by the Energy Star and VESA (Video Electronics Standards Association) standards. When the monitor is left unused, it can also automatically eliminate unnecessary power consumption. If the user intends to use this feature, the monitor must be connected to a computer with a power management system that complies with VESA standards. There are three energy-saving modes that users may choose, as listed below (at this time, the computer must also be configured for these modes to take effect):

* Waiting Mode

The monitor enters the Waiting mode after the line signal is cut off. At this time, power consumption is less than 1W, the screen will turn dark, and the power indicator turns orange. If there is any input from the keyboard or mouse, the monitor will re-enter the working mode immediately.

* Pause Mode

The monitor enters the Pause mode after the field signal is cut off. At this time, power consumption is less than 1W, the screen will turn dark, and the power indicator turns orange. If there is any input from the keyboard or mouse, the monitor will re-enter the working mode immediately.

* Close Mode

The monitor enters the Close mode after both the line signal and field signal are cut off. At this time, power consumption is less than 1W, the screen will turn dark, and the power indicator is off. In case there is any input from the keyboard or mouse, the monitor will re-enter the working mode immediately.

* The user can view the status of the power-saving modes through the LED on front panel.

Mode	Signal			Power	
	Line Signal	Field Signal	Video Signal	Power Indicator	Power Consumption
Normal	Y	Y	Y	Green	<30W
Waiting	N	Y	N	Orange	<1W
Pause	Y	N	N	Orange	<1W
Close	N	N	N	OFF	<1W

NOTE: It is better to remove the power cord from the electrical socket when the monitor is not in use for an extended period of time.

Timer Mode

	VGA	VESA	MAC
640x350	70 Hz		
720x400	70 Hz		
640x480		60/75 Hz	67 Hz
800x600		56 / 60 / 72 / 75 Hz	
832x624			75 Hz
1024x768		60 / 70 / 75 Hz	75 Hz

FAQ (Frequently Asked Question)

Question: What should I do if there is no picture?

- Make sure the cable is connected to the port on your PC's display card.
- Make sure the computer and screen are both turned on.
- Make sure the pins on the connector head of the cable are not bent or broken.

Question: What should I do if orange LED lights are on but there is no picture?

- Make sure the cable is connected to the port on your PC's display card.
- Check if the computer is in sleep mode or not.

Question: What should I do if green LED lights are on but there is no picture?

- Check if the output frequency of computer is outside the monitor's range. Refer to the material above on timing mode .
- Check and adjust BRIGHTNESS, CONTRAST, BACKGROUND BRIGHTNESS using the OSD menus.

Question: What should I do if RGB NO INPUT SIGNAL is displayed on the screen?

- Make sure the signal cable is connected to the port on your PC's display card.
- Check that your computer is operating normally.

Question: What should I do if SIGNAL OVER RANGE is displayed on the screen?

- Check your PC's display card specification, set vertical frequency to 55 ~ 75 Hz, and make sure resolution is less than 1024 x 768. Refer to the material above on timing mode for further information.

Question: What should I do if the screen image is not clear?

- Confirm that the computer signal output is normal, and then check the AUTO ADJUST and Recall items in the OSD menu.
- Check the PHASE & Clock items.
- Set the screen image to 1024 x 768 @ 75Hz.

Question: What should I do if the screen image size is incorrect?

- Check the Recall & AUTO ADJUST items of the OSD menu.
- Adjust horizontal and vertical position using the OSD menu.
- Make sure that your display card is compatible with the LCD specifications. (Please refer to relevant diagrams or manual and updated information as well).