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Important Safety Instructions

- 1. Read the manual carefully before using the monitor.**
- 2. Save the user manual for later use.**
- 3. Unplug the monitor from the power source when you clean the monitor. Don't use liquid cleaners or aerosol cleaners. Use cloth to clean it. If it doesn't do, please use LCD screen cleaners.**
- 4. Don't use attachments not recommended as they may cause hazards.**
- 5. Please grasp the plug to unplug the connector from the wall outlet. Don't pull the power cord to unplug it.**
- 6. Don't place anything on the power cord or step on it.**
- 7. Don't place the monitor near water source such as bathtub, washbowl, sink, laundry tub, swimming pool etc.**
- 8. The slots are designed for ventilation, simultaneously to keep the machinery workable and protect it from overheating. For the same reason, please do not place the monitor on the bed, sofa, carpets or other similar surface. Don't place the monitor near or over heat source or place in built-in installation.**
- 9. Keep 5 cm away from the wall or other goods.**
- 10. This monitor can only use the power source indicated on the label. If you have questions, please consult your dealer.**
- 11. As safety measure, this monitor is equipped with a three-wire ground style plug. If you can't insert the plug into outlet, contact your electrician to replace your outlet. Don't defeat the safety purpose of the grounding-type plug.**

12. Please make sure that the outlet and power cord can afford the total electricity of the products.
13. Place the monitor in safe place where the cord will not be abused by persons working on it.
14. Follow all the warnings and instructions illustrated on the manual.
15. Don't overload the wall outlets and extend cords as this can result in fire or electric shocks.
16. Don't remove or open the cover to service this monitor yourself. It may expose you to dangerous voltage or other hazards before all servicing to qualified service personnel.
17. Unplug this monitor from the outlet and refer servicing to qualified service personnel under the following conditions.
 - The power cord is frayed or damaged.
 - The monitor has been dropped or the cabinet has been damaged.
 - When the monitor displays a distinct change in performance, this indicates a need for service.
18. The power cord is the main device to disconnect the power.
19. Unplug the power cord when you do not use it for a long time.
20. Place the monitor in good ventilation and protect it from strong light, overheating and damp environment.
21. This monitor must be stored in temperature $-20^{\circ}\text{C} \sim 55^{\circ}\text{C}$. Otherwise, it may cause permanent damage.

1. Introduction

1.1 General Information

This monitor is a high-performance intelligent multi-scanning color monitor .It is with 21.5" TFT LCD screen and MCU digital control low radiation and glary. Built-in power supply. The shape is tiny and thin adapting to small places, save your more place.

1.2 Features

- The best working mode: 1360×768@60Hz
- Viewable angle: H,176° V,176°
- Active area: 477.417mm×268.416mm
- Pixel pitch: 0.3495mm×0.3495mm
- Max.Brightness: 300cd/m²
- Max.Contrast: 800:1
- Response time t_r+t_f : 6.5ms
- Color: 16.7M
- Power saving compliant with EPA energy star and VESA DPMS.
- Auto color balance .When connected to different graphic adapter, the monitor can calibrate the white and black reference voltage.
- Plug & play, compatible with Windows9X&ME&NT&2000&XP and VESA DDC1/2B.

1.3 Check the list

Please make sure that all of the following items are included before operating this monitor,

- LCD monitor(include base)
- Power cord, VGA signal cable, DVI-D signal cable (optional), Audio cable(optional)
- User's manual

If any of above listed items are missing, please contact your dealer for technical support..

2.Installing the monitor

Please consider the following advice before you install your monitor.

Position

Choose a place that reflects less to place your monitor. Generally ,there is a suitable angle with a window.

Highness

The peak of the monitor should be a little lower than your eyes when you sit down.

Inclination

You will feel comfortable with the sloping screen.

2.1 Base Installation(Fig.1, Fig.2)

1. After taking the monitor out of the carton, carefully turn the monitor on front side .
2. Align the base with the knighthed of the monitor and push the base in the direction of arrows until the fasteners both on the knighthed and the base are well connected.
3. Insert the plastic pin into the base in the direction of arrow, then use screwdriver to lock the bolt firmly.

Notice: Remove the base by the contrary order above.

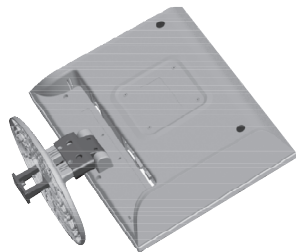


Fig.1

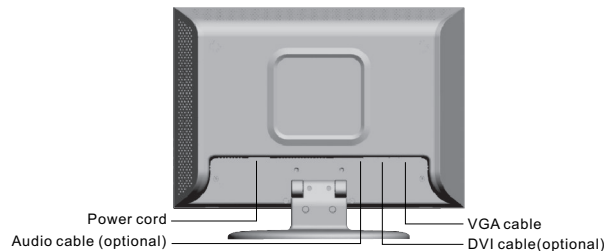


Fig.2

2.2 Wall Mounting with VESA Standard (Fig.3)

1. Loose the two bolts with a screwdriver. Then the base and the knighthhead can be taken off. In order to prevent the two bolts from loose, it is better to assemble the bolts into the axis of ratation on the rear cover of the monitor.
2. Clean up the signal cable, power cord, audio cable.
3. Fix the wall-mounting parts (optional parts according with VESA standard) on the rear cover to mount the monitor on the wall.



Fig.3

2.3 Signal Cable Connection

Insert the signal cable into VGA and DVI port of a computer. Then, lockup the cover with screws to assure full connection to the earth. Insert another end of signal cable into the corresponding port (VGA or DVI port) and lock up with screws.

2.4 Audio cable connection

Plug one side of the audio cable into the PC audio port, then plug the other side into the audio port of the monitor.

2.5 Power Cord Connection

Plug one end of the power cord into the input port of the monitor' power supply and then insert the other end into the socket of the electrical source.

2.6 Power on

Switch on the power to both the monitor and your computer. After the monitor is power on, the LED lights up green or blue. If the LED becomes red and flashing, please check the video signal cable connection. If the LED is off, please press power switch slightly.

2.7 Self test pattern

If there is no horizontal or vertical sync signal, your monitor will display Fig.4 to Indicate no signal input. After a few seconds, the monitor will come into waiting and saving power mode; if the monitor receives the video signal, it will return to the normal mode.

2.8 Adjust the picture

In order to obtain the best visual display, you need adjust it, please refer to chapter 3 "the Operation of the monitor".

3.Operation

OSD control panel

Fig.5 is model elevation. Other models differ in key-press position and front panel.

3.1 Power on/off switch

This is a slight touch digital control key. It is used to turn the monitor on or off.

3.2 Power LED indicator

When the monitor is working, the power LED is green or blue. If the monitor is in saving power mode, the power LED will be red and flashing. If you turn off the monitor, the power LED will be off. When the LED is off, the monitor is off, but the monitor is still electricized. In order to security, you should unplug the power cord while you don't use the monitor.

3.3 OSD control keys

3.3.1 Auto key



Fig.4

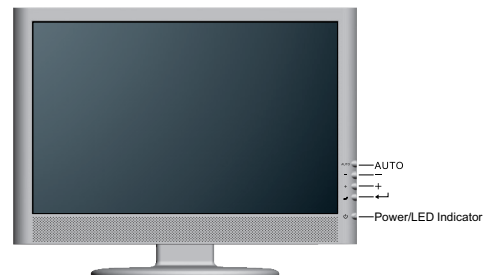


Fig.5

This key is used to complete auto- adjusting function, it make the monitor to be the best visual display status only in VGA mode.

3.3.2 +/- key

These two keys will complete the navigate right or left and choose the control of the menu function. The adjustment value can be set directly by +/- key.

3.3.3 ↵ key

Confirmation key can show the menu and complete the confirmation function.

3.4 OSD menu

3.4.1 The meaning of the menu in VGA mode [Fig.6]:

- | | |
|-----------------------------------|------------------|
| 1. auto adjustment | 2. brightness |
| 3. Contrast | 4. H-position |
| 5. V-postion | 6. clock |
| 7. Phase | 8. signal source |
| 9. color adjustment | 10. Volume |
| 11. sharpness | |
| 12. OSD position/transparence | |
| 13. Recall | 14. Language |
| 15. exit | |
| 16. selected function name | |
| 17. Resolution | 18. H-frequency |
| 19. V-frequency | |
| 20. Progressive bar of adjustment | |
| 21. percentage of adjustment | |
| 22. customer LOGO | |
| 23. OSD display time | |

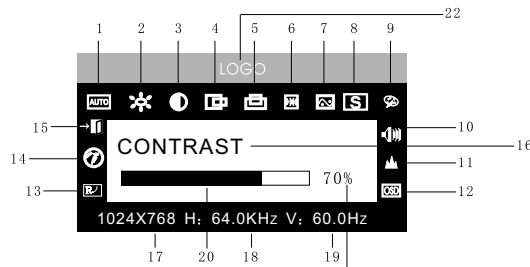


Fig.6 (DVI MODEL)

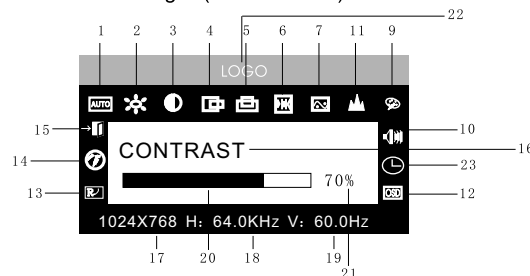


Fig.6 (VGA MODEL)

3.4.2 The meaning of the menu in DVI mode [Fig.7]

1. brightness
2. contrast
- 3.sharpness
4. Volume
- 5.OSD menu display time
6. transparence
- 7.OSD position
8. signal source
9. 9300k
10. 7800k
11. 6500k
12. User
13. Recall
14. Language
15. Exit
- 16.selected function name
17. resolution
18. H-frequency
19. V-frequency
20. progressive bar of adjustment
21. Percentage of adjustment
22. customer LOGO

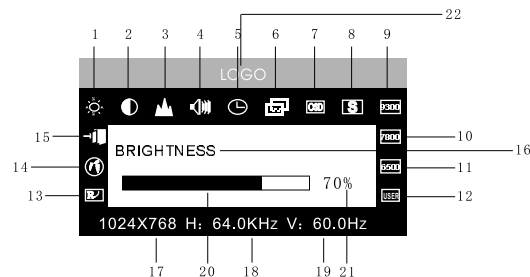


























Fig.7

3.4.3 Function table

	Display contents	Function
	Auto adjustment	Automatically adjust to obtain the best setting
	Brightness	Adjust the brightness
	Contrast	Adjust the contrast
	H-position	Move the screen toward left or right
	V-position	Move the screen toward upward or downward
	Clock	Adjust the frequency of pixel
	Phase	Adjust the phase of pixel clock
	Sharpness	Adjust the sharpness of the picture
	Color	Adjust the colors of the picture
9300	9300K	Set 9300K color temperature
7800	7800K	Set 7800K color temperature
6500	6500K	Set 6500K color temperature
USER	User mode	Set user mode
W-B	Auto color balance	Auto color balance
	Volume	Adjust the volume
	OSD display time	Adjust the OSD display time
	OSD adjustment	Adjust the parameter of OSD
	OSD H-position	Move the menu toward left or right
	OSD V-position	Move the menu toward upward or downward
	OSD transparency	Setting OSD transparency
	Signal source	Exchange signal mode between VGA and DVI
	Recall	Reset factory setting
	Language	Language selection
	Exit	Exit the menu

3.4.4 Special functions

1. Color adjustment (): when the function is selected, the monitor will come into the sub-menu [Fig.8], there are five functions that can be selected: a,9300k; b,7800k; c,6500k; d, USER; e, W-B. Selecting USER, you will enter user mode and you can make adjustment to R/G/B values to obtain your satisfying color ; Selecting W-B,it will enter the color balance mode, and the monitor will automatically adjust the white-black color reference voltage to obtain optimal color balance.
2. R/G/B adjustment(): In "USER" mode, monitor will automatically enter R/G/B adjustment mode, push "←" key, the relative options will flash, then adjust it by "+/- " key. Then push "←" key again to exit.
3. Language().
There are many languages to select, you can choose the language which you wish.
4. Position of OSD menu(): When you select the item, you can adjust H-position and V-position of OSD menu and transparency [Fig.9:VGA、 Fig10:DVI].
5. Sharpness adjustment():Adjust the sharpness of the picture on the screen.

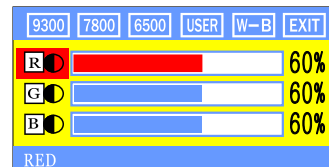


Fig.8

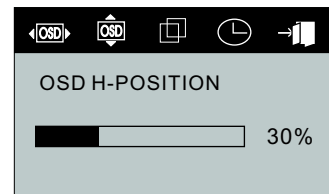


Fig.9 VGA

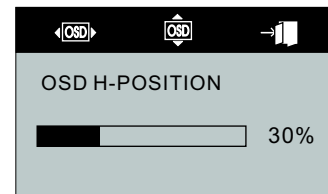


Fig.10 DVI

3. 5 Safety mode

When the video signal exceeds the frequency range of the monitor, the monitor MCU will stop horizontal and vertical scanning in order to protect the monitor. Fig.11 will be displayed on the screen. After a few seconds, the monitor will enter turn-off mode. You must restart the computer and reset the frequency range.

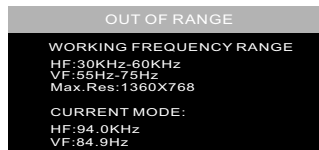


Fig.11

3.6 Timing guide

Mode	Resolution	Refresh (Hz)	Available Input Signal
VGA	720×400	70	VGA
	640×480	60	VGA, DVI
SVGA	800×600	60	VGA, DVI
XGA	1024×768	60	VGA, DVI
WXGA	1360×768	60	VGA, DVI

Recommended mode: 1360×768@60Hz

3.7 Plug & Play

This monitor meets the standard of VESA DDC. When using video card with VESA DDC1/2B, it will auto-scan video frequency, output power, function and other data to PC when computer is on. It will go to proper connector mode and proper resolution frequency.

3.8 Power management

This monitor complies with EPA energy star requirement and meets VESA DPMS standard. The following is the description of the power indicator for the power saving mode [Fig.12].

MODE	Power indicator	Power consumption
On	Green or blue	<48W
Stand by/suspend	Red flashing	<1W
Off	Off	<1W

Fig.12

3.9 Volume adjust

Adjust the volume by OSD menu and software of the PC.

4. Specification

Monitor type	TFT LCD
Surface disposal	Anti glary
Active area	477.417mm ×268.416mm
Viewable angle:	
H	176°
V	176°
MAX. Brightness	300cd/m ²
MAX. contrast	800:1
Response time t _r +t _f	6.5ms
Max. resolution	1366×768
Input resistance	75±3 % Ω
H-frequency	30KHz~60KHz
V-frequency	55Hz~75Hz
Power supply for monitor	100V-240VAC 60Hz/50Hz
Max.consumption	48W
Input connector	15 pins D-Sub or DVI-D
Power saving control	Yes
Comply with EPA energy star standards	Yes
Comply with European CE	Yes
Plug & Play	Yes

Environment	
Atmosphere pressure	86kpa~104kpa
Operating temperature and humidity	5℃~40℃ 10%~85%
Storage temperature and humidity	-20℃~55℃ 5%~95%
Dimension(L×W×H)	
Unpacking	533×63×383mm ³
Packing	593×125×420mm ³
Weight	
Net weight	5.5kg
Gross weight	6.5kg

Note: This specification is subject to change without notices. If there are differences between manual and real operation, please do according to real operation.

5. Simple troubleshooting

Symptom	Solution
1. No picture / no LED	Check if the power cord, the monitor, and the power plug are well connected. Check if the monitor is off.
2. No picture / LED red flashing	Check if the PC video card and signal cable are well connected and check if signal cable well connected with monitor.
3. Picture faintness, too big or too small	In OSD menu, select “ AUTO ” to make the monitor adjust automatically.
4. Picture too dark	Push “ +/- ” key to adjust contrast and brightness.
5. Overheating	Keep 5cm away from other goods for ventilation. Don't put anything on the monitor.
6. Bright or dark spot	It's normal phenomena. Eliminate the bright or dark spot in 20 minutes after turning on the monitor.
7. Picture distortion and flicker	Check the PC setting, select the proper resolution and adjust refresh frequency.
8. Short of color	Check if the signal cable pins are twisting or broken.
9. Noise Signals at turning off	There may be noise signals during turning off the monitor. This is caused by electrical release and so is normal.

FCC Warning statement

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

NOTE: 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 or 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.