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Important Safety instructions

1. Use the monitor after reading the manual carefully.
2. Save this 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 a cloth to clean it. If it doesn't do, please use LCD screen cleaners.
4. Don't use attachment 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 a bed, sofa, carpets or other similar surface. Do not place the monitor near or over heat source or place in a built-in installation.
9. Keep 3 inch (76mm) 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 $-20^{\circ}C \sim 55^{\circ}C$. 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 17" TFT LCD screen and MCU digital control without radiation and glary. The shape is tiny and thin adapting to small places, save your more place.

1.2 Features

- The best working mode: 1280x1024@60Hz
- Viewable angle: H,- 80º/+80º   V, -70º/+70º
- Active area: 337.920mm× 270.336mm
- Pixel pitch: 0.264mm× 0.264mm
- MAX.Contrast: 500:1
- MAX.Brightness : 300cd/m^2
- Response time t_r/ t_f: 12/4ms
- Display color: 16.7M colors
- Four keys OSD control and intelligent menu
- Press "AUTO"key to made the pictures clear
- Power saving compliant with EPA energy star and VESA DPMS
- Auto color balance. When connected to different graphic adapter, the monitor can calibrates the white and black Reference voltage
- Plug & play, compatible with Window 9X &ME&NT/2000/XP and VESA DDC1/2B

1.3 Check the list before operating this monitor, please make sure that all of the following items are included.

- LCD monitor (include Base)
- AC adapter
- Power cord, Signal cable, Audio cable
- User's manual, pass certificate, warranty certification.

If any of above listed items is missing, please contact your dealer for technical support or customer service.

2. Installing the monitor
Please consider the following advice before you install your monitor.
Position
Choosing the place that reflects less to place your monitor. Generally, there is a suitable angle with the 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.

Signal cable
Audio cable
Power cord

Fig.1

Audio cable
Power cord

Signal cable
knighthead
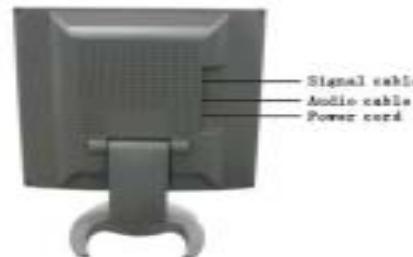
Fig.2

Hanging style (CT7000 model)
The client may put up the monitor on the wall basing on needs. Operations as these: [Fig.3]

4

(1) Take apart the base and take the signal clip, you will see two bolts in the knighthead. If you screw the two bolts,you can take apart the plastic cover of the axis of rotation and the metal bracket, then you can take the knighthead apart.

(2)Clean up the signal cable,power cord and audio cable.

(3)Use four pothooks , you can hang up the monior on the wall.

Desk's duck (CT7000 model)

The client may put up the monitor on the desk with Desk's duck on the needs. Operations as to these: [Fig.4]

(1)   Take apart the base and the knighthead,then you can rotate the two screws of the axis of rotating to the bottom with the metal knighthead.

(2)   Fix the plastic casing with the plastic pole over, then you install the metal knighthead in reverse and screw the bolts tightly.

(3)   Cover the another plastic cashing, screw the bolts tightly and rotate the knighthead to the appropriate angle.

(4)   Install the base, adjust the viewable angle and place the monitor to the appropriate position.

(3)   Clean up the signal cable, power cord and audio cable.
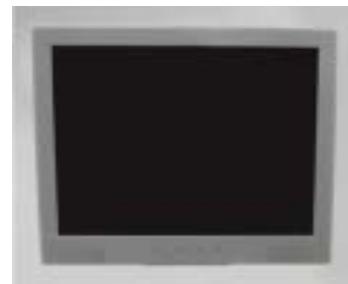
Fig. 3	Fig. 4	Fig. 5

2.1 Signal cable connection

Plug one connector of the signal cable into the VGA port and lock the two bolts to ensure firm grounding. Then plug the other one into the monitor and lock the two bolts.   (Fig. 1: 7002L series model and   Fig. 2: 7003L series model)

2.2 Power cord connection

Plug one side of the power cord into the AC adaptor, and the other side into AC power source outlet, then plug the output side of the AC adaptor into the power port at the side of monitor.

2.3 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 become red and flashing, please check the video signal cable connection .If LED is off, please press power switch slightly.

2.4 Self test pattern

If there is no horizontal or vertical sync. signals, your monitor will display Fig.5 to indicate no signal input. After a few seconds, the monitor will come into waiting and saving power mode; the power LED will be red and flashing. Once the monitor receives the video signal, it will return to normal mode.

2.5 Adjust the picture

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

3. Operation

OSD control panel (as shown in Fig.6 and   Fig. 7)

Fig.6 is 7002L series model elevation. Other models differ in key-press position and front panel.

Fig. 7 is 7003L series model elevation . Other models differ in key

Fig.6

–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 computer, the power led is off. When the LED is off, the monitor is off, but the power adapter is on. In order to security, you should turn off power adapter while you don't use the monitor.

3.3 OSD control keys

3.3.1 Auto key

This key is used to complete auto-adjusting function.

3.3.2. +/- key

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

3.3.3 ⏎ key

Confirmation key, to show the menu and complete the confirmation function.

3.4 OSD menu (as Fig. 4)

The meaning of the menu: 1 auto adjustment   2 brightness   3 contrast   4 H-position   5 V-position 6 clock   7 phase   8 sharpness   9 color adjustment
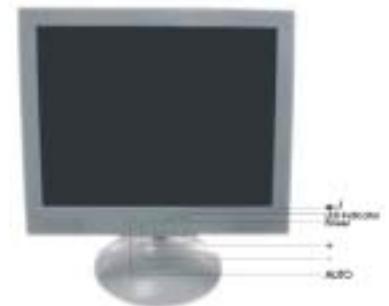
Fig.7

10 volume(optional)   11 OSD menu display time 12 OSD position /transparence adjustment 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.
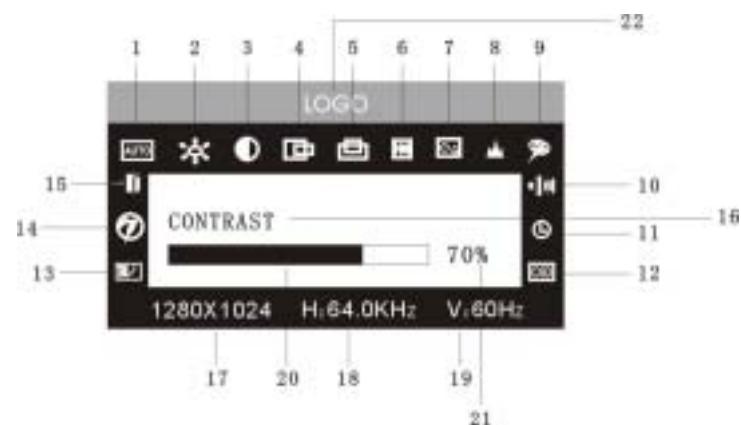

Fig.8

3.4.1. 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 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 color temperature	set 9300k color temperature
7800	7800K color temperature	set 7800k color temperature
6500	6500K color temperature	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 ADJUSTMENET	Adjust the parameter of OSD
	OSD H-Position	Move the menu toward left of right
	OSD V-Position	Move the menu upward or downward
	OSD Transparency	OSD Transparency Setting
	RECALL	Reset factory setting
	LANGUAGE	Language selection
	EXIT	Exit the menu

3.4.2 Special functions

1. Auto adjustment(AUTO):   When you choose this function, the monitor will come into the automatically adjustment mode. The Fig.9 will display on the screen. After a few seconds, the monitor will be in the best visual display mode.

2.Color adjustment (🎨): when the function is selected , the monitor will come into the sub-menu(as Fig.10), there are five functions that can be selected: a,9300° K; b,7800° K; c,6500° K; d, USER; e, W-B. Selecting USER, you will enter into the user selection mode and you can make adjustment to R/G/B contents to obtain your satisfaction color; Selecting W-B, it will enter into the color balance mode ,and the monitor will automatically adjust the white-black color reference voltage to obtain optimal color balance.

3.R, G, B adjustment (R G B): In "USER mode", monitor will automatically enter into R/G/B the adjustment mode, push the " ↵ " key , the relative options will flash, then adjust it by "+/-" key. Then push " ↵ "again to exit.

4.Language(🌐) . There are six languages to select.
   (As Fig.11)
                ENG.: English
                FRE.: French
                DEU.: German
                ITA.: Italian
                ESP.: Spanish
                PYC.:Russian (TUR.:Turkish or POR.:Portuguese)

AUTO ADJUSTMENT...
Fig.9
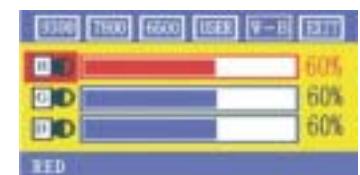
Fig. 10

Fig.11

Fig. 12

5.Position of OSD menu (![OSD]): When you select the item, you can adjust the H-position and V-position of OSD menu and transparence (Fig. 12)
6.Sharpness adjustment(![icon]): Adjust the sharpness of the picture on the screen.

3.5 Timing guide

NO.	Mode	Resolution	Ver.Frequecy (Hz)	Hor.frequency (KHz)	Pixel clock (MHz)
1	VGA	640×480	60	31.5	25.175
2			72	37.9	31.5
3			75	37.5	31.5
4	SVGA	800×600	60	37.9	40
5			72	48.1	50
6			75	46.9	49.5
7	XGA	1024×768	60	48.4	65
8			70	56.5	75
9			75	60	78.75
10		1152×864	75	67.5	108
11		1280×960	60	60	108
12	SXGA	1280×1024	60	64.0	108
13			75	80.0	135

Recommend mode: 1280×1024@60Hz

3.6 Plug & Play

This monitor meets the standards of VESA DDC. When using video card with VESA DDC1/2B, it will auto-scan video frequency, output power, function and other data to win95 when computer is on. It will go to proper connection mode and proper resolution frequency.

3.7 Power management

This monitor complies with EPA energy star requirement. and meets VESA DPMS standards. The following is the description of the power indicator for the power saving mode (Fig 13).

MODE	Power indicator	Power consumption
On	Green or blue	<40W
Stand by/suspend	Red flashing	<5W
Off	off	<3W (include power adapter's consumption)

Fig. 13

3.8 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	337.920mm ×270.336mm
Viewable angle: H V	 -80º/+80º -70º/+70º
MAX. Brightness	$300cd/m^2$
MAX. contrast	500:1
Response time t_r /t_f	12/4ms
Max. resolution	1280×1024@75Hz
Input resistance	75±3 %Ω
H-frequency	30KHz~81KHz
V-frequency	55Hz~75Hz
Power supply for Adapter	100V~240VAC 60Hz/50Hz 1.5A
Power supply for monitor	12VDC 3.3A
Consumption	<40W
Input connector	15 pins D-Sub.
Power saving control	Yes
Comply with EPA energy star standards	Yes
Comply with European CE	Yes
Plug & Play	Yes

Environment	
Operating temperature	5°C~40°C
Humidity	20%~80%
Storage temperature	-20°C ~55°C
Dimension(L×W×H)	
Unpacking (7002L series)	415×220×420 mm
Unpacking (7003L series)	393×205×415 mm
Packing (7002L series)	490×165×481mm
Packing (7003L series)	476×227×491mm
Weight	
Net weight (7002L series)	5.0kg
Net weight (7003L series)	5.5kg
Gross weight (7002L series)	7.0kg
Gross weight (7003L series)	7.5kg

(Because of speaker's size is different, the dimension and weight appreciably differ.)

Note: This specification is subject to change without notices.

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	Push the "AUTO" key, make the monitor adjust automatically.
4.Picture faintness	Push the "+ / -" key to adjust the brightness and the contrast.
5.Overheating	Keep 3 inch (76mm) 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.

6. 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.
- Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment."