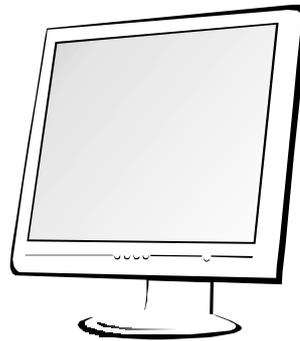




15"/17"/19" TFT-LCD monitor
USER MANUAL



www.viewera.com

V152/V174/V192

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Important Safety Instructions

- 1. Read the manual carefully before using the monitor.**
- 2. Save these 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 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 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 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

- 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 calibrates the white and black reference voltage.
- Plug & play,compatiable 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)
- AC adapter(optional)
- Power cord,VGA signal cable, DVI-D signal cable(optional), audio cable (optional)
- User's manual,pass certificate,warranty certification

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 Assembly

Take the monitor from the carton, fix base and knighthead with screw [Fig.1].

● VESA Hanging style

The client may put the monitor on the wall. If you use the style, you need purchase the hanging subassembly which accords with VESA standard. Operation as these [Fig.2]:

- (1) Take apart the plastic cover of axis of rotation, screw three bolts.
- (2) Clean up the signal cable, power cord and audio cable.
- (3) Fix hanging subassembly on the back cover to hang up the monitor on the wall.

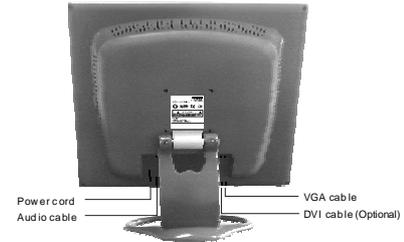


Fig.1



Fig.2

2.2 Signal cable connection

Plug one connector of the signal cable into the VGA or DVI port and lock the two bolts to ensure firm grounding. Then plug the other one into the monitor and lock the two bolts.

2.3 Power cord connection

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

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 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.

2.6 Self test pattern

If there is no horizontal or vertical sync signal, your monitor will display Fig.3 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.



Fig.3

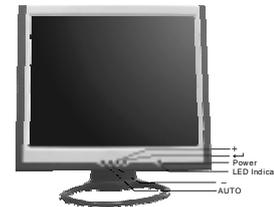


Fig.4

2.7 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.4 is 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 power adapter is on. For 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 ,it make the monitor to be the best visual display status in VGA mode. This key is used to switch VGA and DVI signal in DVI mode.

3.3.2 +/- key

These two keys can 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 [as Fig.5]:

1. auto adjustment
2. brightness
3. contrast
4. H-position
5. V-position
6. clock
7. phase
8. signal source
9. color adjustment
10. volume (optional)
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

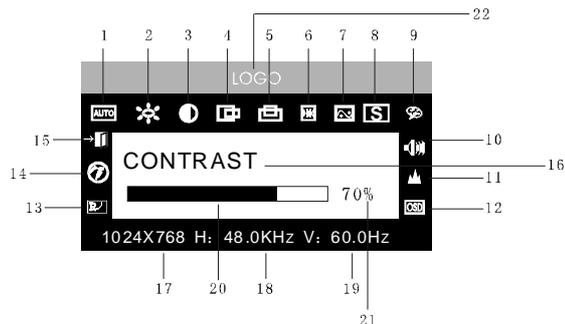


Fig.5 (DVI MODEL)

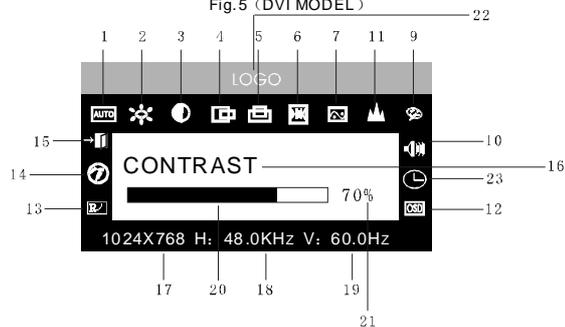


Fig.5 (VGA MODEL)

3.4.2 The meaning of the menu in DVI mode [as Fig.6]

1. brightness
2. contrast
3. sharpness
4. volume(optional)
- 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. Eixt
- 16.selected function name
17. resolution
18. H-frequency
19. V-frequency
20. progressive bar of adjustment
21. percentage of adjustment
22. customer LOGO

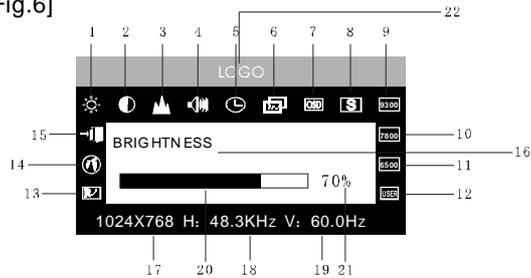


Fig.6

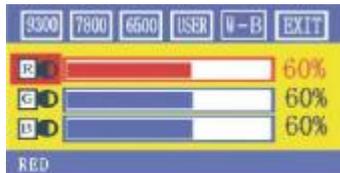


Fig.7

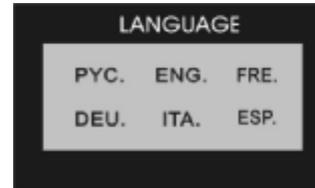


Fig.8

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

3.4.2 Special function

1. Color adjustment(🗨️): when the function is selected, the monitor will come into the sub-menu [Fig.7], 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 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(R G B B): In "USER" mode, the 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 six languages to select[Fig.8]
ENG.: English
FRE.: French
DEU.: German
ITA.: Italian
ESP.: Spanish
PYC.: Russian(TUR.:Turkish or POR.: Portuguese)
4. Position of OSD menu(OSD): When you select the item, you can adjust H-position and V-position of OSD menu and transparency [as Fig.9:VGA、 Fig10:DVI].

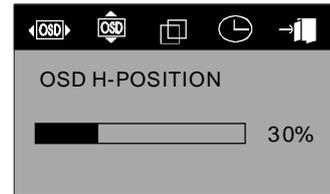


Fig.9 VGA

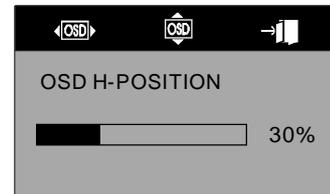


Fig.10 DVI

5. Sharpness adjustment(🏔️): Adjust the sharpness of the picture on the screen.

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 display on the screen . After a few seconds, the monitor will enter turn-off mode. You need restart the computer and reset the frequency range.

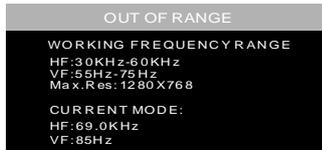


Fig.11(V152)

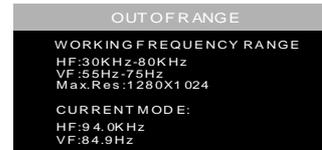


Fig.11(B V174/V192)

3.6 Timing guide

V152

NO.	Mode	Resolution	Polarity	Bandwidth	H-Frequency
1	VGA	720X400	H: -	28.322MHz	H:31.468KHz
			V: -		V:70.0Hz
2	VGA	640X480	H: -	25.175MHz	H:31.469KHz
			V: -		V:60.0Hz
3	SVGA	800X600	H: +	40.0MHz	H:37.879KHz
			V: +		V:60.3Hz
4	XGA	1024X768	H: -	65MHz	H:48.363KHz
			V: -		V:60.0Hz
5	XGA	1024X768	H: -	75MHz	H:56.476KHz
			V: -		V:70.0Hz
6	XGA	1024X768	H: +	78.75MHz	H:60.023KHz
			V: +		V:75.0Hz

Recommended mode: 1024×768@60Hz

V174/V192

NO .	Mode	Resolution	Ver.frequency	Pixel clock	Hor.frequency
1	VGA	640×480	60Hz	25.175MHz	31.5KHz
2			72Hz	31.5MHz	37.9KHz
3			75Hz	31.5MHz	37.5KHz
4	SVGA	800×600	60Hz	40MHz	37.9KHz
5			72Hz	50MHz	48.1KHz
6			75Hz	49.5MHz	46.9KHz
7	XGA	1024×768	60Hz	65MHz	48.4KHz
8			70Hz	75MHz	56.5KHz
9		1024×768	75Hz	78.75MHz	60KHz
10		1152×864	75Hz	108MHz	67.5KHz
11		1280×960	60Hz	105MHz	60KHz
12	SXGA	1280×1024	60Hz	108MHz	64KHz
13			75Hz	135MHz	80KHz

Recommended mode: 1280X1024@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 connection 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		
		V152	V174	V192
On	Green or blue	<30W	<40W	<45W
Stand by/suspend	Red flashing	<5W	<5W	<5W
Off	Off	<3W	<3W	<3W
(include power adapter' s consumption)				

3.9 Volume adjust

Fig.12

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

4. Specification

Monitor type	TFT LCD		
Model	V152	V174	V192
Surface disposal	Anti glary	Anti glary	Anti glary
Active area	304.128mm × 228.096mm	337.920mm × 270.336mm	376.32mm × 301.056mm
Viewable angle:			
H	-75 ° / +75 °	-80 ° / +80 °	-80 ° / +80 °
V	-70 ° / +70 °	-70 ° / +70 °	-80 ° / +80 °
MAX. Brightness	250cd/m ²	300cd/m ²	250cd/m ²
MAX. contrast	400:1	500:1	600:1
Response time t _r /t _f	4/12ms	4/12ms	2/10ms

Model	V152	V174	V192
Max. resolution	1024×768@75Hz	1280×1024@75Hz	1280×1024@75Hz
Input resistance	75±3 % Ω	75±3 % Ω	75±3 % Ω
H-frequency	30KHz~60KHz	30KHz~81KHz	30KHz~81KHz
V-frequency	55Hz~75Hz	55Hz~75Hz	55Hz~75Hz
Power supply for Adapter	100V-240VAC 60Hz/50Hz	100V-240VAC 60Hz/50Hz	100V-240VAC 60Hz/50Hz
Power supply for monitor	12VDC 3.3A	12VDC 4.2A	12VDC 4.2A
Rated voltage and MAX.Consumption	12VDC 30W	12VDC 40W	12VDC 45W
Input connector	15 pins D-Sub or DVI-D	pins D-Sub or DVI-D(optional)	pins D-Sub or DVI-D(optional)
Power saving control	Yes	Yes	Yes
Comply with EPA energy star standards	Yes	Yes	Yes
Comply with European CE	Yes	Yes	Yes
Plug & Play	Yes	Yes	Yes
Environment			
Atmosphere pressure	86kpa~104kpa	86kpa~104kpa	86kpa~104kpa
Operating temperature	5℃~40℃	5℃~40℃	5℃~40℃
Humidity	20%~80%	20%~80%	20%~80%
Storage temperature	-20℃~55℃	-20℃~55℃	-20℃~55℃
Dimension(L×W×H)			
Unpacking	360×150×350mm ³	393×150×390mm ³	430×150×420mm ³
Packing	418×165×395mm ³	455×165×440mm ³	490×165×465mm ³
Weight			
Net weight	3.5kg	5.0kg	6.0kg
Gross weight	5.0kg	7.0kg	8.0kg

Note: This specification is subject to change without notices.

5. Dead Pixel Policy

Dead pixels on the TFT LCD panel are sometimes inevitable. ViewEra guarantees that the monitor will be replaced if the number of dead pixels on our monitor is more than 5 pixels. No dead pixel warranty may be provided during the promotion period.

6. Warranty & Customer Service

Warranty

ViewEra warrants the monitor for one year on parts, labor and the LCD panel from the date of purchase. For detail warranty information, please refer to our website <http://www.viewera.com/warranty.htm>

Customer Service

Contact your ViewEra retailer or ViewEra for after sale service.

You may contact ViewEra Customer Service for technical support or RMA as below:

1. By Mail: 328 Paseo Tesoro, Walnut, CA 91789

2. By Telephone: (909)595-3624

3. By Fax: (909)595-3526

4. By E-mail: Tech. Support- support@viewera.com

RMA rma@viewera.com

The business hours are 9:00 am 6:00 pm PST, Mon Fri.

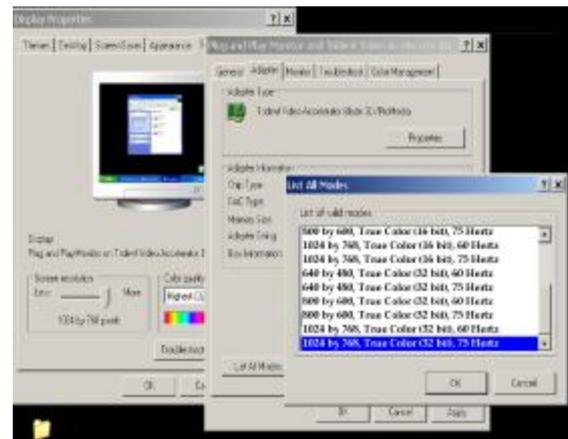
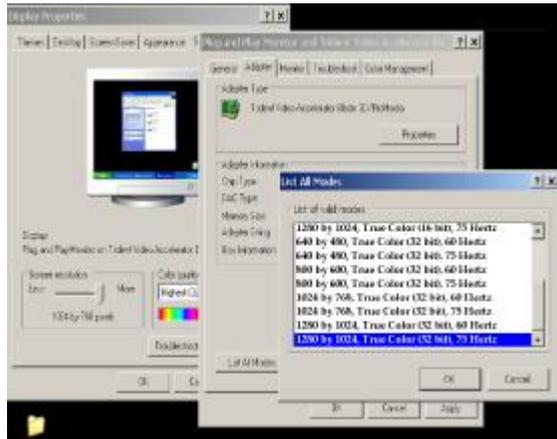
7. Windows setup

For the best view, please set the monitor type in Windows.

Please select as following:

Control Panel > Monitor > Setting > Advance > Monitor > Change > Show all List ...> Stand >

For 1280 X1024, please set to “SXGA 1280 X1024@75Hz”



For 1024X768, please set to “ XGA 1024 X 768 @75Hz”

8. Trouble Shooting

1) Power on but no picture

- Make sure the VGA cable is tightly connected from the video output connector on the video card to the video input connector on the monitor.
- Make sure you are using the standard power adapter coming with the monitor.
- Check your video card if the driver is correctly installed. If there is no video signal from the video card, “O INPUT SIGNAL” will show on the screen.

2) Wrong or abnormal colors

- If any color (red, green, or blue) is missing, check video cable to make sure it is securely connected. Loose pins in the cable connector can cause a bad connection.

3) The text and icon look blurry

- LCD monitor has a native resolution which pixels are produced by cells in fixed positions. When a resolution different from the native resolution is chosen, the LCD monitor uses various interpolation methods to achieve the pseudo resolution. To achieve the optimum viewing quality, choose the native resolution of the panel is recommended.
- Use “Auto Tuning” function to adjust image quality on the OSD menu or you can hold button 2 for 3 seconds to do auto tuning.
- 4) Display position is incorrect
 - Use “Auto Tuning” function to adjust image position on the OSD menu or you can hold button 2 for 3 seconds to do auto tuning.
- 5) Speakers have no sound
 - Make sure the audio cable is tightly connected from the audio output jack on the PC to the audio input jack on the monitor.
- 6) Residue image
 - If an image remains on the screen for an extended period of time, it may be imprinted in the screen and leave a residue image. It is characteristic of liquid crystal and is not malfunction or deterioration of the liquid crystal. The residue image will disappear after a period of time. It is recommended to set up the screen saver for your LCD monitor.
- 7) Out of Rang
 - The first thing you need to check is the screen resolution. Usually “ut of Range” is caused by improper resolution setting. You can recover the proper screen resolution as the following steps for Windows: (Assumed that the optimal resolution and frequency setting is 1280x1024@ 60Hz.)
 - Boot the computer into **VGA Mode (F8)** [repeatedly] at startup.
 - Go to “**Control Panel**” double click on “**Display**”, click on the **SETTINGS TAB**, and click on the **ADVANCED** button.
 - Then Click on the **Adapter TAB**, click “**List All Modes**” and change the screen resolution to 1280x1024. (You can select 16 bit or 32 bit color which depends on your video card capability.)
 - Select “**1280 by 1024, High Color (16 bit), Default Refresh**”
 - Click on “**OK**” and “**APPLY**” .
 - After clicking “**APPLY**” button, a message will be displayed “our desktop has been reconfigured. Do you want to keep these settings”
 - Click “**Yes**” and “**OK**” . Then click “OK” on the Display Properties window.
 - Restart your PC
 - After you restart, go back to “List All Modes” to adjust your screen refresh rate to 60 Hertz.
 - The “Out of Range” may happen if you switch monitor A to monitor B for your PC. Whenever you change the monitor for your PC, your PC may detect it as a new hardware and automatically install a proper driver for the monitor. So, you will have both monitor A and monitor B drivers on your PC. Sometimes the two monitor drivers may conflict each other and cause “Out of Range” . You can resolve “ut of Range” by uninstalling both monitor drivers and reboot your PC. The Windows will automatically detect the new hardware and install a proper driver for the monitor. Here is a quick way to uninstall the monitor drivers:
 - Right click on “**My Computer**”, select “**Properties**” and click on “**Hardware**” . Click on “**Device Manager**” , select “**Monitor**” and click on “+” in front of “Monitor” . Then you can see one of the monitor drivers called “**Plug and Play Monitor**” . A quick way is to uninstall all the monitor drivers and then let Windows automatically detect the new hardware. (Right click on the monitor driver and select “Uninstall”). Restart your PC.