Appendix B - User's Manual

Please see attached document(s).

TFT LCD Monitor

Digital Image Player

3GATE

FCC Compliance Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions : (1) this device may not cause harmful interference, and (2) this device must accept any interference received including interference that may cause undesired operation.

INFORMATION TO THE USER

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.

WARNING

THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

NOTICE

Check this manual content for your safety before it start LCD monitor

● This manual could not copy of full or parts content.

● It can be different this manual content or products according to main function improve and option.

● It's easy to use the LCD monitor after user read this manual.

● This manual to used publicly Windows98 / ME / 2000 / XP.

● Windows 98 / ME / 2000 / XP is registered trademark by Microsoft Corporation.

As this device is registered in electric wave adaptation it can be use not only at home but also in any place.

SAFETY INSTALLS LCD MONITOR

Guide installation LCD monitor

- Do not expose the LCD monitor to hot place
- Periodically wipe its surface with a soft and dry clot.
- Do not close up opening hole any material it may cause fire due to temperature rise to inside
- Call A/S service center unplug the LCD monitor when not in use or lighting or smoke or smell coming from the LCD monitor
- Call A/S service center disconnect the power plug from A/C outlet when the products is dropped or broken.
- Do not drop this monitor to the floor
- Please set up the monitor to flat place and safety place
- Do not open or disassemble the products it may cause electric shock and unable to A/S service
- Use our quality and safety A/C, D/C adapter
- Use adapter after remove the vinyl cloth
- Do not put coin or chopstick or hairpin or metal or any flammable material into LCD monitor
- Do not expose the monitor direct sunlight

SAFETY INSTALLS LCD MONITOR

Related in power notice

● Do not use the LCD monitor if power cord or outlet has been damaged.

● Make sure to hold the plug not the cord or do not hold the plug with hands wet.

● Plug in ground outlet.

● Unplug the monitor when not in use or lighting strike.

● Do not put over load the outlet.

Related uses the LCD monitor notice

● Do not open the case or disassemble.

● Do not use alcohol acid or toluene when clean the LCD monitor.

● Do not press on the panel by power or draw line on the panel using by nail or knife.

● Unplug the monitor and clean the front panel with soft and dry cloth. Do not clean wet cloth it may cause failure of the LCD monitor.

Related others notice

● As LCD panel is a product requiring high technology, which consisted with millions of pixel & sub-pixel. Some pixels & points (Black. White. Red. Green.

SAFETY INSTALLS LCD MONITOR

Blue) can be seen in some case. These are LCD panel features as this is not a default. This cannot be returned or refunded, as they are not related with monitor function.

FEATURES OF LCD MONITOR

● As we used LCD(Liquid Crystal Display) panel and slim design, you can use effectively in a small space.

● If you connect LCD monitor to computer information is exchanged each other through communication method which called DDC and help user set best-fitted resolution and frequency.

● As it supports OSD adjusting function, user can control screen setting simply.

● As AUTO function is embedded, it automatically set screen size, location, frequency to optmum screen statues according to present resolution when in analog operation.

● As VESA DEMS (Digital Power Management Signaling) is embedded, it can minimize consuming power when computer is not operating in certain period of time by changing to cutting power statues automatically.

LCD MONITOR'S COMPONENT

LCD monitor deserve are consisted of component which are necessary to use LCD monitor.

LCD Monitor

Power Cable

DC 12V Adapter

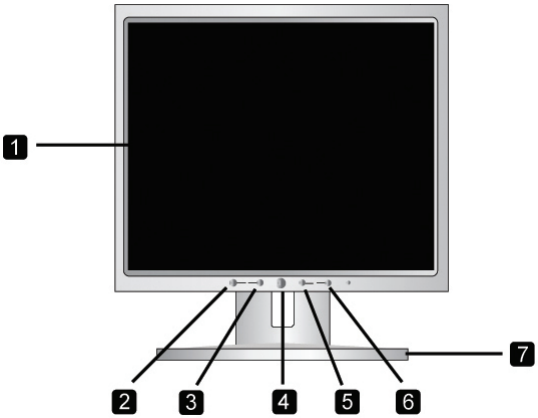
D-SUB RGB Cable

User's Manual

DVI Digital Cable(Option)

EACH PART OF FUNCTION & NAME

Front View



1 TFT-LCD

It is display the screen.

2 AUTO Button

It will be automatically adjusted to the most suitable condition.

3 MENU Button

It is display OSD functions to the screen.

4 POWER Button

Turn on /off the monitor.

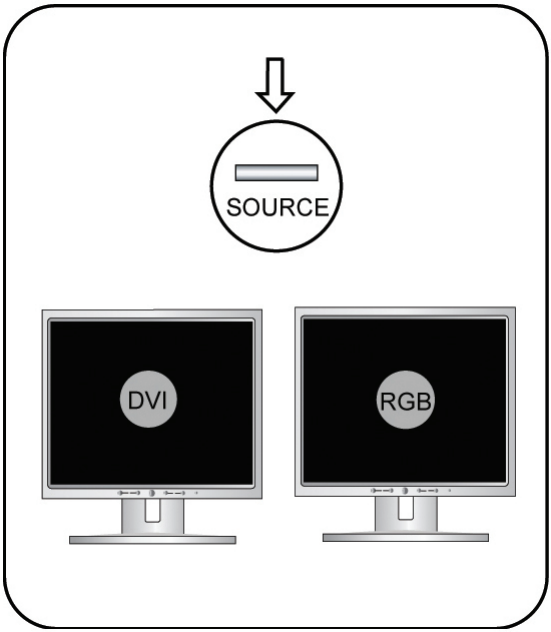
5 DOWN Button

Menu moves to the down direction and phase value.

EACH PART OF FUNCTION & NAME

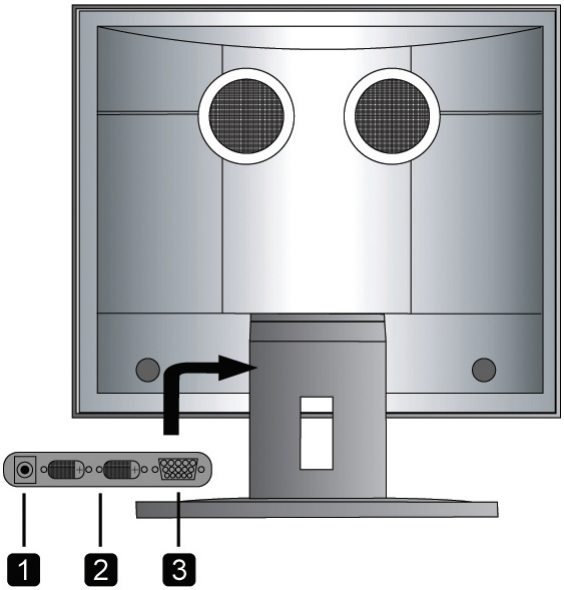
6 UP Button

Menu moves to the up direction and phase value. In case of DVI LCD monitor, you should press "Source" button and it adjusted DVI function or RGB(Analog) function.



EACH PART OF FUNCTION & NAME

Rear View



1 DC Input Jack: (D/C 12V)

2 DVI-D Connector

It should connect DVI cable to the graphic card of slot. In case of dual DVI, DVI slot are located.

3 D-SUB RGB Connector

It shall connect D-SUB RGB cable to the graphic card of slot.

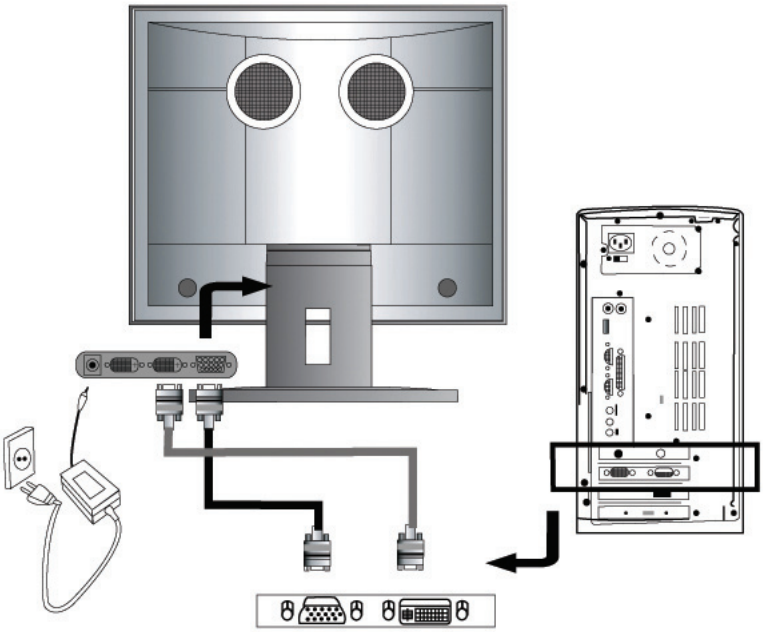
EACH PART OF FUNCTION & NAME

In case of dual DVI, from left side D/C jack, DVI-2, DVI-1, D-SUB RGB slot.

As emitting power hole is for emitting power efficiently which occurs during various components and LCD panel operating if may cause problem in case you block it. Please do not put water or any substance inside.

CONNECTING PC TO THE LCD MONITOR

Connecting LCD Monitor With PC



1. PC & the monitor power are off.
2. Connect the D-SUB RGB cable to PC.
3. Connect the adapter to the monitor D/C jack.
4. PC & monitor power is on after connect line between PC and monitor.
5. Power on PC & the monitor after connecting all cable.

CONNECTING PC TO THE LCD MONITOR

In case of monitor that supports graphic card and DVI, it is better not to connect D-SUB RGB cable. There may occur problem such as recognizing monitor as 2 PCs in operation system or not recognizing DVI in basis status.

CONNECTING PC TO THE LCD MONITOR

Connect monitor cable before put stand to the back cover.

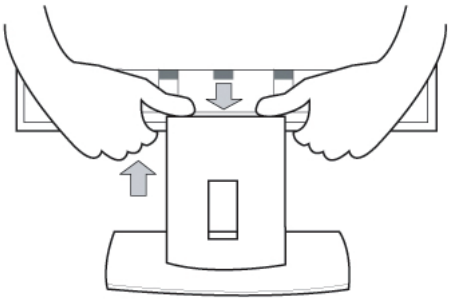
1 Remove back cable cover of 2 bolts.

2 Put LCD monitor stable place and connect D-SUB RGB cable to the D-SUB RGB slot before assemble it.

3 Connect D/C jack.

4 Shut the back cover and lock up bolt.

5 Insert stand into the back of monitor hole.



In case you have to separate LCD monitor part and stand to change place to use. Please shake left and light softly by holding back cable cover of monitor screen part in one hand while pushing stand in the other hand. In case of improper handling it may cause damaged.

INSTALLATION DRIVER

1 Monitor Driver

If you connect LCD monitor, windows recognize as a plug & play monitor. If you use plug & play monitor, there are no different in function and screen quality.

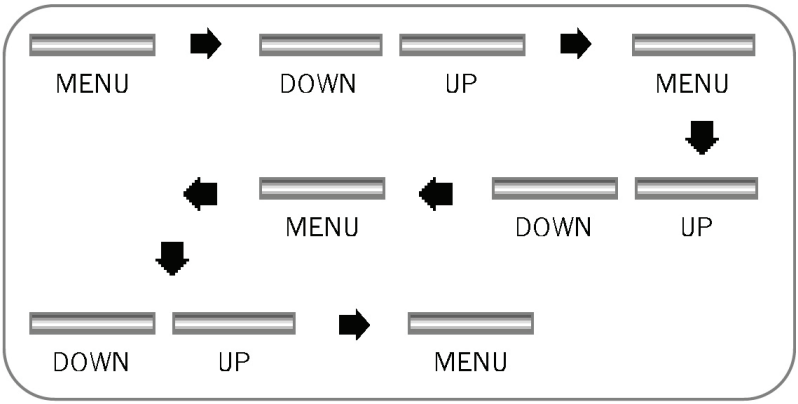
2 Hand Operated Setting (Example : Windows XP)

- Go to web page and down load driver into the PC.
- Unzipped driver.
- Press right mouse button and then click (Registered information) bar.
- Click the mouse (Creation) (High) (Monitor) (Alter) bar.
- Choose Driver. Driver update.
- Choose driver and down load to PC after unzipped.
- Select right model driver on the screen and then click next bar.
- It is better to re-booting for the check status of driver after set up.

OSD SCREEN ADJUST & SELECTION

You can change screen use by OSD button. Do press OSD button if you need change it.

OSD Panel Adjustment



1 Press menu button it will be display OSD screen.

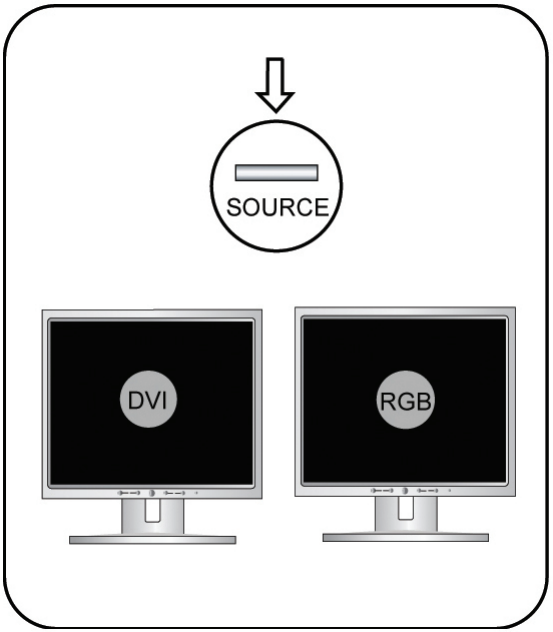
2 Press (DOWN) or (UP) button, go to item bar if you want change setting item value and press menu again.

3 Move selected item you want to adjust.

4 Press (Menu) button if you want cancel.

RGB & DVI INPUT SIGANL SELECTION

1 After press (Source) button, it will be display RGB and DVI on the screen.



▶ In case computer VGA card does not support DVI function it is impossible to connect DVI cable and cannot output screen. In this case, please change input signal with RGB by pushing (Source) button.

▶ In case of RGB only model (Source) button is not operating and can use (UP) button only

▶ (Auto adjust) (Auto color) article are not applied on (AUTO) button (OSD) when connect to DVI.

Color Menu

▶ Contrast	Change contrast to the screen.
▶ Brightness	Change brightness to the screen.
▶ Gamma	Change gamma rate.
▶ Color Temp	Change color temperature to the screen.
▶ User	Change R/G/B ratio.
▶ Exit	Finished setting.

Color temperature means absolute temperature unit of copy wave temperature, whichcomes from ideal black object heating in absolute temperature. Noon's solar light is 5400K, light is 4500~6500K. Ordinary bulb has 3000K color's temperature and monitor is 6500K-basis value in general.

OSD MENU ADJUST

Picture

▶ H.Position	Change horizontal location value.
▶ V.Position	Change vertical location value.
▶ Phase	Change screen clearness value.
▶ Clock	Change screen clock value.
▶ Sharpness	Change scaling value.
▶ Exit	Finished setting.

In case of LCD, it has 1280x1024 pixel and shows optimum screen in 1280x1024 in below resolution. As each pixel can't respond to 1:1. It can't show good screen. It is scaling function, which minimize foggy phenomenon.

In case of model, which supports DVI, all screen quality menu are not operating except clearness when connect to DVI. As DVI that is digital connecting method is supposed to respond 1:1 with each pixel. Date value cannot be set according to user.

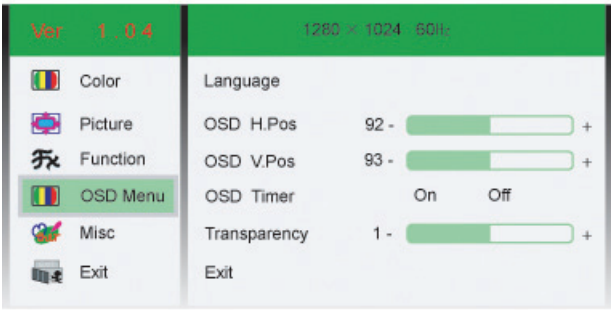
Function Menu

▶ Auto Adjust	Adjust location and screen automatical.
▶ Auto Color	Adjust color and brightness automatical.
▶ Exit	Finished setting.

In case of monitor that supports DVI function, it does not operate all menu function. Color and screen functions are operating only RGB mode.

OSD MENU ADJUST

OSD Menu



▶ Language	OSD menu can be change 6 different language such as English, French, Germany, Spain, Italy, Korean. Default setting language is Enlish.
▶ OSD H.Pos	Adjust horizontal location value of OSD.
▶ OSD V.Pos	Adjust vertical location value of OSD.
▶ OSD Timer	It can set OSD time to disappear or visible OSD menu on the screen if you setting OSD time. Basis default OSD time is 20sec
▶ Transparency	Adjust OSD menu transparency value
▶ Exit	Finished setting.

Misc Menu

▶ Signal Source	Select input source DVI & RGB.
▶ Mode Select	Select resolution at DOS (640x400, 720x400)
▶ Reset	Back to factory setting value.
▶ Exit	Finished Setting.

SUPPORT MODE & FREQUENCY

Support mode and frequency

PC	Support Resolution	Vertical Frequency (Hz)
IBM PC	640 x 480	60/72/75Hz
	800 x 600	60/70/72/75Hz
	1024 x 768	60/70/72/75Hz
	1280 x 1024	60/70/72/75Hz
	DOS 640 x 480	60Hz
	DOS 720 x 400	70Hz
MAC PC	640 x480	66.67Hz
	832 x 642	60/75Hz
	1024 x 768	75Hz

Most suitable frequency

LCD Monitor	Resolution	Vertical Frequency (Hz)
15 Inch	1024 x 768	60Hz
17,17,19 Inch	1280 x 1024	60Hz
21Inch	1600 x 1200	60Hz

CHECK THIS ONE BEFORE CALL FOR A/S

Problem	Check Point	Answer
Display screen is not work.	Check Plug and monitor cable. Does power button work correctly?	Check monitor cable and PC is on power saving mode. In case of No signal letter – appeared it is a phenomenon that signal transmitted from VGA cord is deviating horizontal or vertical frequency range. Please reset it by confirming frequency standard.
Screen size or location is not display correctly.	Is screen size or location correctly?	Press (AUTO) button. It will adjust the mode automatically
Screen color is not display correctly.	Is VGA setting correct? Is selected resolution correct?	Reinstall VGA driver. Reset optimum resolution or reset graphic card.
Display only 16 colors after change VGA card.	Is windows color setting correct?	Reinstall VGA driver.
Dim letter or out of focus	Is Frequency Phase correct?	Press (AUTO) button.
Leave afterimage to the screen after power off.	Do you display fixed image for a long time?	If fixed image is on for a long time, monitor pixel can be damaged quickly. Please protect it by using screen saver.

LCD MONITOR SPECIFICATION

ITEM	SPECIFICATION
Panel	17", 19" TFT-LCD Panel
Max. Resolution	1280 X 1024 (SXGA)
Input signal	D-SUB RGB
	Digital DVI (Option)
Input	100~240V
Output	DC 12V
Consumption Power	17" : ON : 44Watt / OFF : 3Watt
	19" : ON : 50watt / OFF : 3Watt
Size	17" : 365x180x380mm
	19" : 462x240x440mm
Weight	17" : 3.92Kg
	19" : 4.3Kg
Absolute ratings of environment	Operating Temp. 10~40℃, Humidity 10~80%
	Storage Temp. -20~60℃, Humidity 5~95%

Light Indicator

Mode	Display Status
Normal	Blue LED On
Power saving	LED Flicked
Power Off	LED Off