User's Manual

FUJITSU
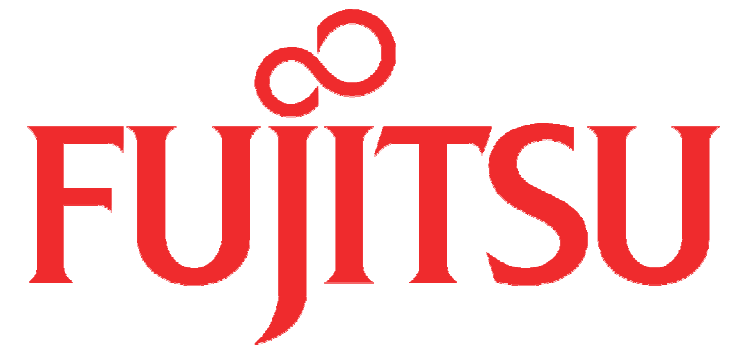
22 inch Color LCD MONITOR

Before operating the monitor, please read th s manua thorough y, and
reta n t for future reference. It w   he piyou to operate you lmonitor easily.   i

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EMC COMPLIANCE

This device has been tested and found to comply with the standards for a class B digital device, pursuant to Part 15 of FCC Rules. Those standards are designed to provide reasonable protection against harmful interference in a residential installation. This device generates and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

If this device does cause harmful interference to radio or television reception, which can be determined by turning the device off and on, 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 device and receiver
---Plug the device into a wall outlet different from that connected to the receiver.
---Consult the dealer or an experienced radio/TV technician for help.

CAUTION: any change or modification not expressly illustrated in this manual may void the warranty.

⚠ **NOTE: any unshielded cable is not allowed to be used in the device!**

IMPORTANT PRECAUTIONS

⚠ WARNINGS:
1. Before using this device, please read all the instructions in this manual carefully.
2. Please keep the manual carefully for future reference.
3. Unplug this device from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp or wet cloth to clean. Please use LCD screen detergent for cleaning if it is still dirty.
4. Do not use the parts not recommended by the manufacturer, otherwise it may cause a hazard.
5. When unplugging the power cord of the monitor or adapter, please hold the plug with your hand; do not pull the cord directly.
6. Do not place any object on the power cord. Do not trample it either.
7. Do not use the device near water sources, e.g. bathtub, basin, kitchen sink, or washing machine. Do not place the device on a wet floor, or near a swimming pool etc. Do not touch the screen with your fingers or other hard objects.
8. Slots and openings on the housing and its back or bottom are provided for ventilation. To ensure reliable operation of the components and to protect them from overheating, these openings must not be blocked or covered placing the device on a bed, sofa, rug, or other similar surface. The device should never be placed near or over a radiator or heater and should not be placed in a built-in installation unless proper ventilation is provided.
9. Make sure that the device is at least 5cm distance from the wall or other objects around when it is in use.
10. The power supply must respond to that stated on the rating plate. If you have any query about the power supply, please refer to the dealer or local power supply provider.
11. As a safeguard measure, the monitor or adapter is equipped with a power cord with three-terminal plug, the third terminal is grounded. If the plug cannot be inserted into the outlet, please contact an electrical technician for replacing the original outlet while keeping the safeguard measure in effect.
12. Ensure that the power socket and cord in use are able to take the sum of the rated currency of all the products.
13. Do not put the device at the place where user is subject to mal-operation.

14. Observe all the warnings and instructions described in the manual.

15. Do not overload the power outlet or use any extension cord, otherwise it may cause fire or electric shock.

16. Do not attempt to repair this device yourself since opening or removing covers may expose you to dangerous voltage or other hazards. Refer servicing to qualified service personnel.

17. Unplug this monitor or AC adaptor from the wall outlet and refer servicing to qualified service personnel under the following conditions:

a. When the power cord or plug is damaged or worn.

b. If the device has been dropped or its housing has been damaged.

c. When the performance of the device deteriorates distinctly.

18. The power cord is the main facility to turn on/off the device; unplug it if the device is not used for a long period of time.

19. Store the device at a place of good ventilation; avoid strong sunlight, high temperature or humidity.

20. Store the device at a place at -20℃~55℃ room temperature. Otherwise, it may cause permanent damage.

1. Introduction

1.1 General

Thank you for purchasing the latest model of LCD monitor, with advantages of high display performance and light weight etc, meanwhile with the power saving and no-radiation features, the latest LCD will bring you comfortable, safe and environmental-protection brand-new visual experience.

Your purchase and use of this product is highly appreciated!

1.2 Features

--- High performance intelligent multi-frequency scanning, use active matrix Thin film transistor liquid crystal display (TFT).

--- Micro Computer digital technology control, no radiation, no glare, built-in multimedia speaker system (option).

--- Built-in AV signal connection terminal and 8 terminal (option).

--- Comply with VESA DPMS International Power Saving Regulation.

--- Support DDC 1/2B and Windows PNP Plug & Play.

--- Microprocessor based with OSD (On Screen Display) control, be able to adjust the image to optimum.

--- Built-in hoisting hole complying with International Standard (VESA), which is able to hang the display on the wall.

1.3 Packing list

Please make sure the following items are included with your LCD display before installation:

--- A LCD monitor (with pedestal)
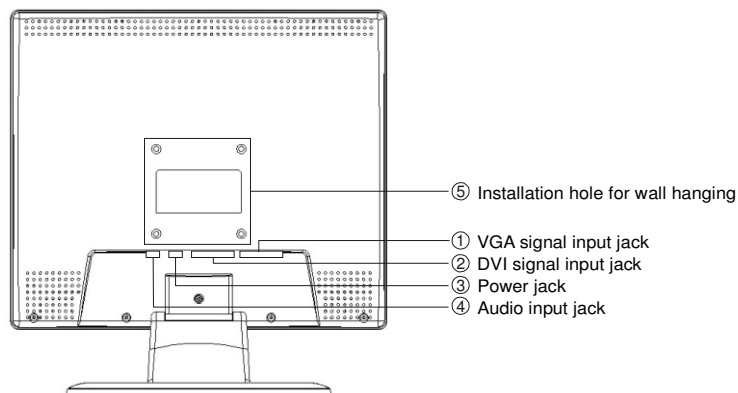
--- A VGA signal cable, DVI-D signal cable (option)

--- An audio cable (option)

--- A power cord

--- A AC adapter

--- User's manual, qualification and warranty cards

If any of there items are missing, please contact with your dealer for technical support and customer service.

⚠ NOTE: be sure to save original box and all packing material for transport in future if the display need.

2. Installation

⑤ Installation hole for wall hanging
① VGA signal input jack
② DVI signal input jack
③ Power jack
④ Audio input jack

① VGA signal input: connect to computer VGA signal output jack
② DVI signal input: connect to computer DVI signal output jack
③ Power jack: connect to adaptor DC output jack
④ Audio input: connect to computer sound card audio output jack

2.1 Connection of signal cable

Before connecting your monitor and PC with signal cable, please turn off your monitor and computer. And then insert one end of the signal cable into the VGA or DVI jack on your computer, and lock it with two fixed screw for ensured grounding. Finally, please insert another end of signal cable to the VGA or DVI signal input jack of monitor and lock it with fixed screw.

2.2 Connection of power cord

First, insert one end of power cord into the input jack of adaptor, and another end into power outlet, then insert the output terminal of adaptor into the power input jack of monitor.

2.3 Connection of Audio cable

Please insert one end of audio cable into the sound card audio output terminal on your computer, another end into the audio input terminal of monitor.

2.4 Power on

Turn on the monitor and computer, and then indicator will light green (or blue) when the screen is under normal condition. Please check to see if there is any wrong with the connection of video signal cable if the indicator lights red.

2.5 Self-inspection

If the monitor inspects there is no horizontal and vertical signal, it will prompt to check the video input, please refer to the illustration below, and the monitor will enter into power saving mode after several seconds, the indicator will light red. The screen will restore to normal display once receiving video signal.
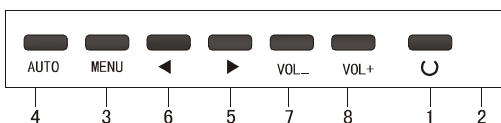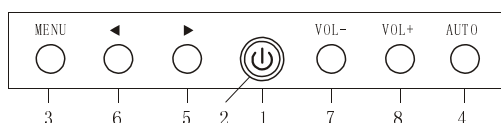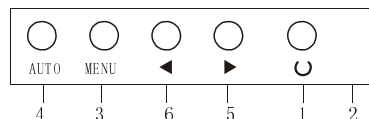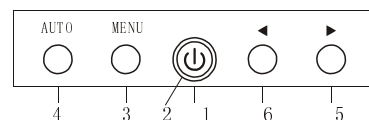
[!] NO SIGNAL

2.6 Image Adjustment

Please adjust the image according to your need; please refer to the "Operation" in Section Three.

3. Operation

3.1 OSD button
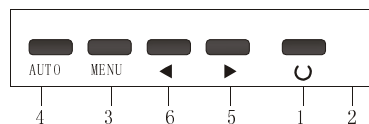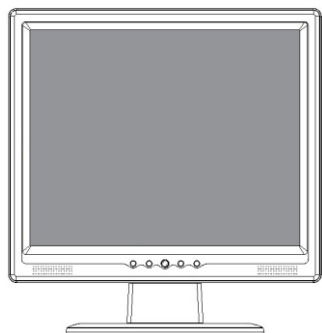
(1) Power Switch (⏻)
  Digital control light-touch switch, used for turning on or off monitor power.
(2) Power Indicator
When the monitor is under normal working condition, the indicator will light green
  (or blue); if the monitor is under saving mode, the indicator will light red or off. And
  the indicator will turn off under the power off mode. (When the power indicator
  turns off, it means that the monitor is under off mode, but please pay attention that
  the adaptor is still in charge, so please disconnect the adaptor when the monitor is
  not used for the purpose of safety.)

(3) Menu Button
  Activate OSD, enter sub menu, select items, and confirm selection.
(4) AUTO Button
  Automatically set the screen display to optimum.
(5) ▶ Button
  Select and adjust the OSD items (Increase the value)
(6) ◀ Button
  Select and adjust the OSD items (Decrease the value)
(7) VOL-
  Select **VOL-**Volume Decrease (Decrease the value)
(8) VOL+
  Select **VOL+** Volume Increase (Increase the value)

3.2 OSD menu and operation menu introduction

Press the MENU to call out the OSD menu (main menu), please see the illustration as below:

With ▶ or ◀ to select the desired items, and then press the MENU button for adjustment, with ▶/◀ button to adjust the display items to optimum, press again for confirmation and exit adjustment.

Brightness adjust menu

Brightness: use ▶ or ◀ to adjust the brightness to optimum.
Contrast: use ▶ or ◀ to adjust the contrast to optimum..
Return: back to previous menu.

```
Return                    ←
Brightness               50
Contrast                 50


  ● ● ●
  USER              1280X1024@75Hz
MENU Select              – + Move
```

Image adjustment menu

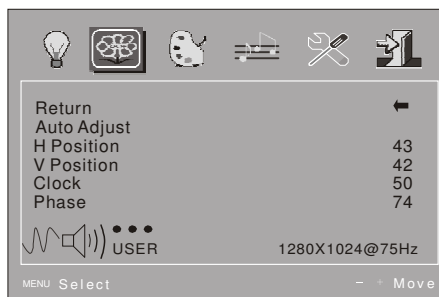**Auto-adjust:** with this button to adjust the display to optimum
H-position adjustment: use ▶ or ◀ to adjust the horizontal position to optimum.
V-position adjustment: use ▶ or ◀ to adjust the vertical position to optimum.
Image position level/clock set: use ▶ or ◀ to adjust the image position level to optimum.
Phase adjustment: use ▶ or ◀ to adjust the focus and definition to optimum.
Return: back to previous menu.

```
Return                    ←
Auto Adjust
H Position               43
V Position               42
Clock                    50
Phase                    74
  ● ● ●
  USER              1280X1024@75Hz
MENU Select              – + Move
```

Color adjustment menu

Red/Green/Blue color adjustment: use ▶ or ◀ to adjust the value of red, green and blue to change the image color so as to meet your needs.
Color temperature: use ▶ or ◀ to select desired color temperature (9300k, 6500k, USER)
Color adjustment: it can be adjusted if under shadow mode. If you are not satisfied with the color temperature set by manufacturer, you may set the color temperature to USER mode; it will light red at this time. When enter adjust menu, please use ▶ or ◀ to adjust R, G, B to change the color of image.
Return: back to previous menu.

```
Return                    ←
Auto Color
Color
Red                      50
Green                    50
Blue                     50
  ● ● ●
  USER              1280X1024@75Hz
MENU Select              – + Move
```
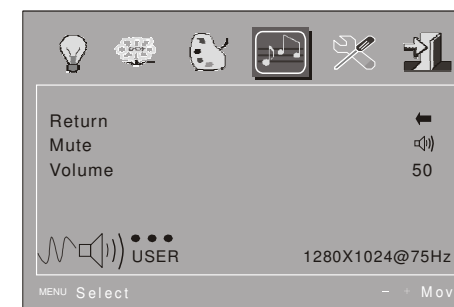
Audio adjustment menu

Volume: use ▶ or ◀ to adjust the volume to optimum (option)
Mute: use ▶ or ◀ to select Mute/Sound.
Return: back to previous menu.

```
Return                    ←
Mute
Volume                   50


  ● ● ●
  USER              1280X1024@75Hz
MENU Select              – + Move
```

System setting menu

Language: use ▶ or ◀ to select desired language.

Menu display time: use ▶ or ◀ to select the desired time for menu display.

Saving time: use ▶ or ◀ to select desired time for display so as to meet your requirement.

Reset: reset all the set value to factory setting.
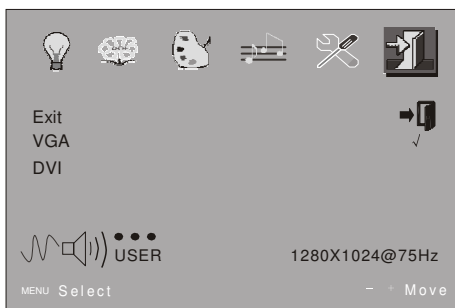
Return: back to previous menu.

```
Return                          ←
Language                   English
OSD Timeout                     60
Power Save                       8
Reset
4 : 3                          OFF
          ● ● ●
     USER          1280X1024@75Hz
MENU  Select            −  +  Move
```

Display mode:when setting OFF,it is display mode,whensettingON, it will be 4:3 display mode

Exit and signal resource selection menu

Select terminal input: select input terminal for signal input (option)

Exit: exit OSD menu

```
Exit                            ➡
VGA
DVI                              √

          ● ● ●
     USER          1280X1024@75Hz
MENU  Select            −  +  Move
```

Note: Hot Key of volume, brightness, contrast

Without OSD mode, your may press "◀" button to call volume adjustment directly, when the volume menu is not exit, please press "MENU" to call brightness and contrast adjustment, you may use "▶/◀" to adjust it to optimum.

3.3 Safeguard

When the video signal of your computer exceeds the frequency range of monitor (refer to product specification), the micro-computer of monitor will turn off the sync signal of horizontal and vertical for the purpose of monitor protection, please refer to the illustration below. The monitor will enter saving mode after few seconds, and the power indicator will light red. Please set the output frequency of your computer within the acceptable range of monitor so that the monitor can work normally.

`[!]  OUT OF RANGE`

3.4 Setting of display mode

With standard VESA and DDC function, the monitor will scan frequency, output power, performance etc and transfer to PC after turning on when you use the video card with VESA DDC1/2B function. And it will identify the connection mode of display and select the proper resolution.

The preset mode before leaving factory is as below:

Mode	Resolution	Horizontal(KHz)	Vertical(Hz)
1	640x400	31.469	70.087
2	640x480	31.469	59.940
3	640x480	37.861	72.809
4	640x480	37.500	75.000
5	720x400	31.469	70.087
6	800x600	35.156	56.250
7	800x600	37.879	60.317
8	800x600	48.077	72.188
9	800x600	46.875	75.000
10	1024x768	48.363	60.004
11	1024x768	56.476	70.069
12	1024x768	58.038	71.918
13	1024x768	60.023	75.029
14	1024x768	48.019	60.000
15	1024x768	47.700	60.000
16	1152x864	67.500	75.000
17	1280x800	49.702	74.900
18	1280x800	62.795	60.000
19	1280x960	60.000	60.000

20	1280x1024	63.980	60.000
21	1280x1024	79.976	75.025
22	1440x900	55.935	60.000
23	1440x900	70.635	75.000
24	1680x1050	65.290	60.000
25	1600x1200	75.000	60.000
26	1920x1200	74 038	60 000

Note: 22" LCD Monitor is applied to items 1-25, recommended mode;

3.5 Power management system

This monitor complies with EPA Energy Star, and is compatible with VESA DPMS standard; the saving mode is shown as below:

Mode	Power Indicator	Power Consumption 22"
Normal	Green or blue	≤50W
Standby/Saving	Red or turn off	≤5W
Power Off	Turn off	≤3W

4.1 22" TFT-LCD monitor specification

	22"
Screen model	22" Active Matrix TFT LCD
Dot pitch (H x V)	0.27675x0.27675mm
Surface treatment	Anti-glare, 3H
Active display area (H x V)	464.94mm (H) x290.5875mm (V)
Max. Resolution	1680x1050
Contrast	1000 : 1 (Typ)
Brightness	300cd/m^2 (Typ)
Responsive time	5ms (Typ)
Display color	16.7M (6bits + Hi-FRC)
Visible angle left/right	+70°~ -70°or +80°~ -80°
up/down	+75°~ -75°or +85°~ -85°
Input signal video signal synchronization	RGB simulation 0.7V p-p TTL positive or negative polarity
Display format	VGA, SVGA, XGA,WSXGA+
Audio input terminal	RCA terminal (x2) (option)
Signal connector	15 pin D-sub or DVI-D (Option)
Panel button	Power switch, LED indicator, OSD menu, +/- button, auto setting
OSD Function	Contrast, brightness, auto adjustment, image level, phase, image h-position, image v-position, OSD h-position, OSD v-position, color temperature, RGB, language
Adaptor AC input	100V~240V 50/60Hz
Adaptor DC output	12V 5A
Max. Power consumption	50W
Working environment Temperature Humidity	0℃~℃ 20%~80%
Storage environment Temperature Humidity	-20℃~℃ 20%~80%
Packing dimension (LxWxH)	585X200X502mm
Weight (Kg)	N.W: 5.5, G.W: 7.5

Note: all technical specifications in this manual and on the packing are subject to change without prior notice!

4.2 Pin assignment of signal cable
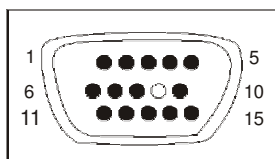
Pin	Signal(D-sub)	Pin	Signal(D-sub)
1	Red	9	DDC Power
2	Green	10	Ground
3	Blue	11	Ground
4	Ground	12	SDA(FOR DDC)
5	Test Cont	13	H. sync
6	Red Ground	14	V. Sync
7	Green Ground	15	SCL(FOR DDC)
8	Blue Ground		

4.3 Visual Inspection

Even the normal pixels on the LCD screen reach 99.99% or higher, there may be 0.01% or less pixels showing dark or light while displaying.

5. Troubleshooting

If your monitor cannot work normally, please refer to the follow methods for common problems quickly, if you need assistance; please call the dealer where you purchased the Monitor.

A. There is no Screen Image/LED no light
  Please check to see whether the power cord is securely connect to the monitor and wall outlet, and whether the display is in power saving mode.
B. There is no Screen Image/LED light red
  Please to see whether the display card of PC is loosed, and check the connection between signal cables and display.
C. The display is not clear or the image is too large or too small
  Enter the OSD image adjustment menu, and then select "Auto Adjust" to make the display to adjust automatically to optimum.
D. The image is too light or too dark
  Enter the OSD brightness adjustment menu, and then select the "▶/◀" to adjust the brightness and contrast to optimum.
E.. The screen is overheated
  Please keep at least 5cm around the display for ventilation, and do not place anything onto the monitor.
F. Dark display after power on/ facula
  This is normal. Due to the temperature difference, the backlight will not give out light equably at the beginning of powering on, but the backlight lamp will come to normal work after 20 minutes, the darkness and facula will disappear at this time. **G. The image is distorted to flash and shake**
  Check the set of computer and choose the proper resolution, then readjust and renovate the resolution.
H. The color is abnormal
  Check the connection of signal cable, if there is any curved or broken pin, please replace it; Enter the OSD color adjustment menu to set the display color to the optimum.

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