TFT LCD MONITOR

Slimax®

MF181M

Owner's Manual

Max Media

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 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.

For use only with power supply Li Shin Model LSE9901B1260

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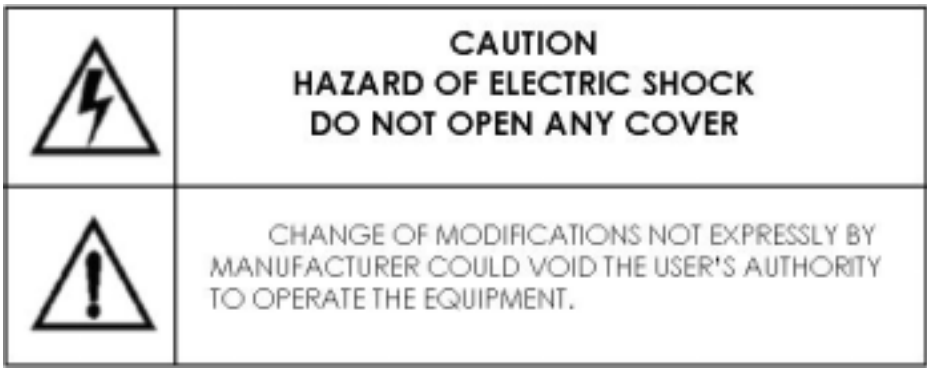
- Before connecting the AC power cord to the DC adapter outlet, make sure the voltage rating of the DC adapter corresponds to the local electrical supply.
- Never insert anything metallic into the cabinet openings of the liquid crystal display (LCD) monitor; doing so may create the danger of electric shock.
- To avoid electric shock, never touch the inside of the LCD monitor. Only a qualified technician should open the case of the LCD monitor.
- Never use your LCD monitor if the power cord has been damaged. Do not allow anything to rest on the power cord, and keep the cord away from areas where people can trip over it.
- Opened ventilation of monitor cabinet is provided for heated air to prevent overheating, these openings should not be blocked or covered. Also, avoid using the LCD monitor on a bed, sofa, rug, or other soft surface. Doing so may block the ventilation openings in the side of basement. If you put the LCD monitor in a bookcase or some other enclosed space, be sure to provide adequate ventilation.
- Don’t put your LCD monitor in a location with higher humidity and a maximum of dust.
- Do not expose the LCD monitor to rain or use it near water (in kitchens, near swimming pools, etc.). If the LCD monitor accidentally gets wet, unplug it and contact an authorized dealer immediately. You can clean the LCD monitor with a damp cloth when necessary, but be sure to unplug the LCD monitor first.
- Place the LCD monitor on a solid surface and treat it carefully. The screen is made of thin glass with a plastic front surface and can be damaged if dropped, hit or scratched. Do not clean the front panel with Kenton-type materials (e.g., acetone), ethyl alcohol, toluene, ethyl acid, methyl, or chloride – these may damage the panel.
- Put your LCD monitor near an easily accessible AC outlet.
- If your LCD monitor does not operate normally – in particular, if there are any unusual sounds or smells coming from it – unplug it immediately and contact an authorized dealer or service center.
- High temperature can cause problems. Don’t use your LCD monitor in direct sunlight, and keep it away from heaters, stoves, fireplaces, and other sources of heat.
- Unplug the LCD monitor when it is going to be left unused for an extended period of time.
- Unplug your LCD monitor from the AC outlet before any service.



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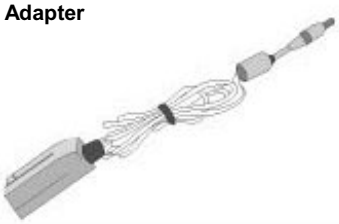
Contents of Box

Please make sure the following items are included with your monitor. If any items are missing, contact your dealer.

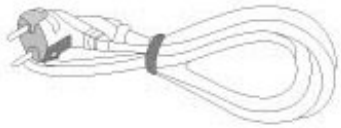
Owner's Manual

Monitor

AC/DC Adapter



Power Cord



15-pin D-Sub Signal Cable

Setting up an Ergonomic Working Environment

Consider the advice given below before you install your monitor.

Monitor location

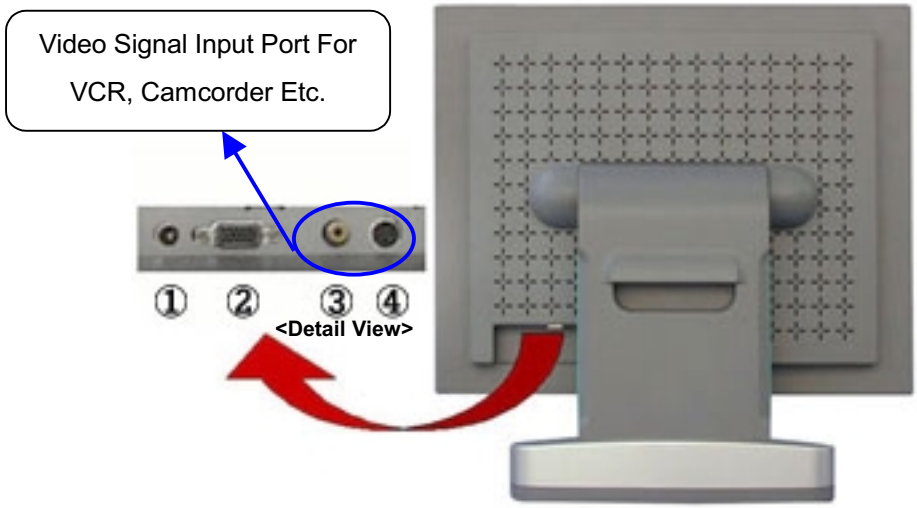
Choose a position that exposes your monitor to the least reflection from lights or windows, usually at a right angle to any window.

Tilt

Tilt the screen so as you feel comfortable working with your monitor.

Tilt the screen

Connecting Your LCD Monitor



Cable connections

A. Connect the DC connector of the power adapter with the power port ① on the rear of your monitor; connect the power cable with the AC socket; and then put the plug of the power cable into the power source on the wall.
B. Connect the signal cable with the signal port ② on the rear of your monitor and the video port on your computer; and then drive screws in.
C. Connect the video cable from VCR or Camcorder with the port ③ or ④.

Plug and Play

The adoption of the new VESA® Plug and Play solution eliminates complicated and time consuming setup. It allows you to install your monitor in a Plug and Play compatible system without the usual hassles and confusion. Your PC system can easily identify and configure itself for use with your display. This monitor automatically tells the PC system its Extended Display Identification Data (EDID) using Display Data Channel (DDC) protocols so the PC system can automatically configure itself to use the flat panel display. If your PC system needs a video driver, set to SXGA(1280x1024)@75Hz monitor as default or Flat panel.(1280x1024)

Monitor Self-Test

Your monitor provides a self-test function that allows you to check whether your monitor is functioning properly. Check your monitor by the following steps:

Power Status Indicator

- Turn off both your computer and monitor.
- Unplug the video cable from the back of the computer.
- Turn on the monitor.
- Message will be shown “POWER SAVER MODE” and disappear message after 3 seconds.
- Turn off your monitor and reconnect the video cable; then turn on both your computer and monitor.
- Check whether screen adjustment is properly made by OSD menu.
- If all the above steps work without any trouble, your monitor is functioning properly.
- If your monitor screen remains blank after the following the previous procedure, check your video Controller and computer system.

Help Index

If your monitor does not display an image, check your cable connections and refer to "Troubleshooting" on page 19. If you feel difficult to get optimized displayed image, run Auto Configuration and refer to "Adjustment of Your LCD Monitor " on page 9, 11 or "Troubleshooting" on page 19.

Warm-up Time

All LCD monitors need time to become thermally stable whenever you turn on the monitor after letting the monitor be turned off for a couple of hours. Therefore, to achieve more accurate adjustments for parameters, allow the LCD monitor to warm (be on) for at least 30 minutes before making any screen adjustments.

User Controls

Your LCD monitor allows you to easily adjust the characteristics of the image being displayed.
All of these adjustments are made using the control buttons on the front of the monitor. While you use these buttons to adjust the controls, an on-screen menu shows you their numeric values as they change.

User control location

No.	Name	Descriptions
①		● Power On / Off
②		● Green : Normal Operation ● Amber : POWER SAVER MODE / Absence of Signal Input ● Off : Monitor Power Off
③		● OSD (On Screen Display) On / Off
④		● With OSD On, Menu Selection ● With OSD Off, Execution of Auto Configuration ● Completion of Adjustment
⑤		● With OSD On, Function Navigation ● With OSD On, Control of Selected Menu Value ● With OSD Off, Input Signal Selection (Order : PC -> COMPOSITE -> S-VIDEO -> PC)
⑥		● With OSD On, Function Navigation ● With OSD On, Control of Selected Menu Value

Automatic Save

Whenever you open the on-screen menu and allow an adjustment window to remain active for about 20 seconds without pressing other buttons, the monitor automatically saves any adjustment you have made. These changes are saved into an user NVRAM(Non Volatile RAM) in the monitor.
The monitor can save adjustments for up to 5 user modes. It has 13 factory preset or preload modes, one for each signal frequency as listed in table on page 17. If you have made no adjustments, the on-screen menu disappears and the monitor does not save anything.

On-Screen Display(OSD)

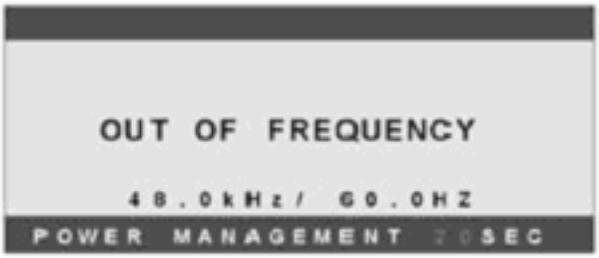
Accessing the menu

- With OSD off, push the [M] button to display the main OSD menu.
- Use the [▲] [▼] buttons to move from one function to another function. When you move from one icon to another, the function name changes to reflect the function or group of functions represented by that icon.
- Press [↵] button once to activate the selected menu and then use [▲] [▼] buttons to adjust the value setting bar and the numeric value indicator. The numeric value indicator is provided as a point of reference only and has nothing to do with a real measurement.

Operation and Indication Message

Auto Configuration execution message

Power saving message



Input mode not supported message

The messages showing status of operation

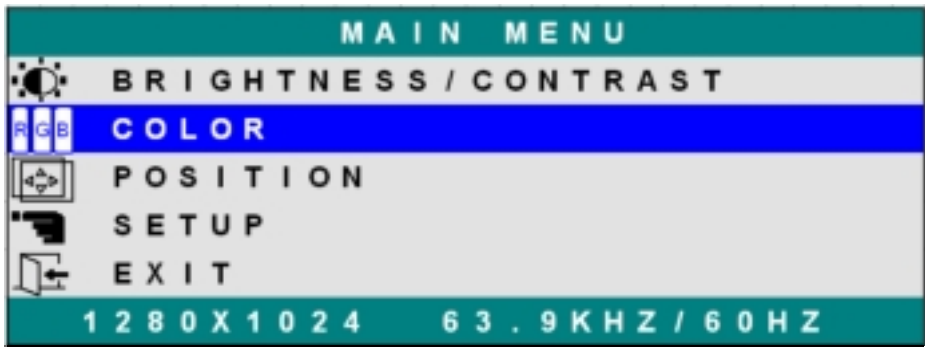
- "PROCESSING AUTO CONFIGURATION" means the monitor is executing the self-adjust to optimize input video signal.
- "POWER SAVER MODE" means the monitor is going to do power saving function.
- "OUT OF FREQUENCY" means the monitor cannot display properly because input signal is out of display range. With this message, the VGA card on your computer may not be able to recognize the monitor identity information or to support the Plug and Play function. So make sure your display mode as Page 17 Display Mode.

OSD functions and adjustment

<In case of the D-SUB signal connection>

Control of backlight brightness

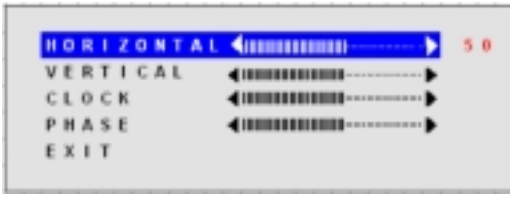
Control of contrast signal level



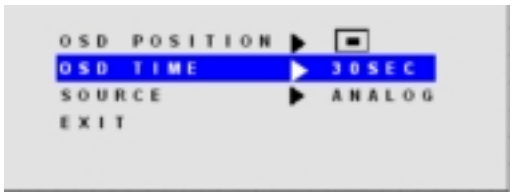
Preset1 : Bluish White

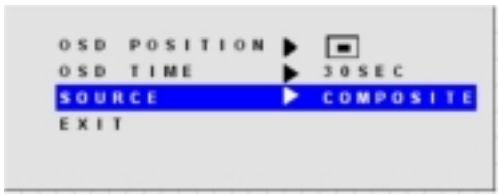
Preset2 : Plain White

RED, GREEN, BLUE : User Control Colors



HORIZONTAL : Screen movement in horizontal direction
VERTICAL : Screen movement in vertical direction
CLOCK : Rough image tuning by screen size adjustment
PHASE : Fine image tuning-up



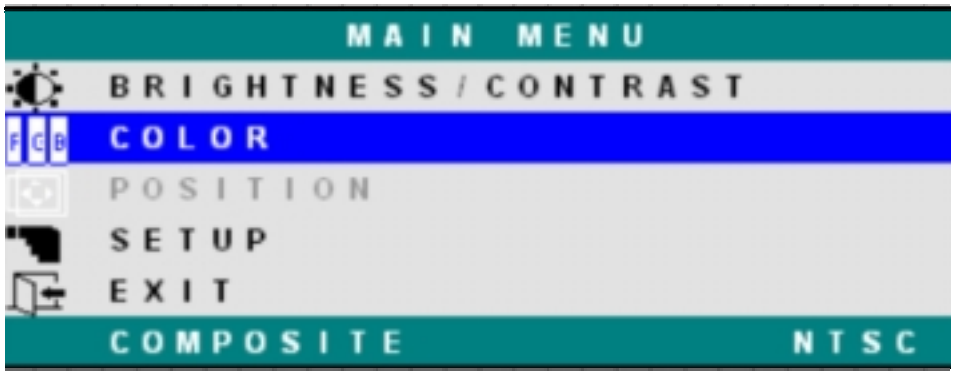


OSD POSTION : OSD display position moves to the upper part of the left side, the upper part of the right side, the center, the lower part of the left side and the lower part of the right side in turn.
OSD TIME : OSD display time during the absence of user control
SOURCE : Automatic change of input signal into ANALOG (PC), S-VIDEO, COMPOSITE, ANALOG

<In case of S-VIDEO or C-VIDEO signal connection>

Control of black color signal level

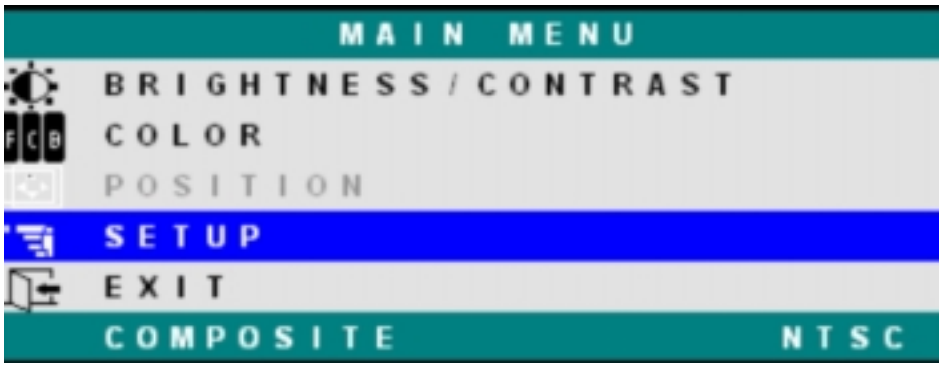
Control of contrast signal level

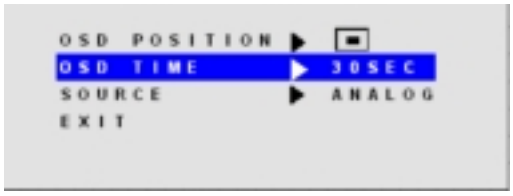


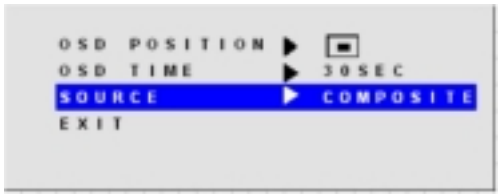
SHARPNESS : Control of sharpness signal level

COLOR : Control of color thickness signal level

TINT : Control of color tone signal level







OSD POSTION : OSD display position moves to the upper part of the left side, the upper part of the right side, the center, the lower part of the left side and the lower part of the right side in turn.

OSD TIME : OSD display time during the absence of user control

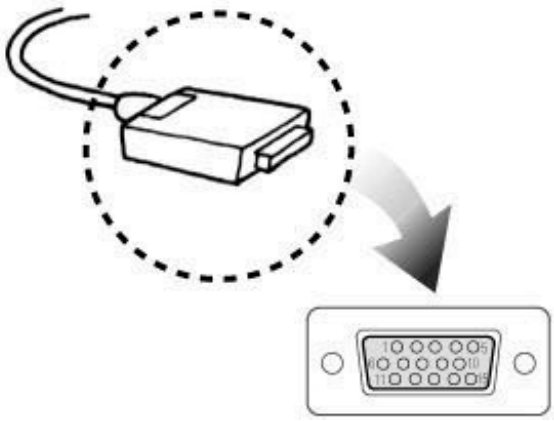
SOURCE : Automatic change of input signal into ANALOG (PC), S-VIDEO, COMPOSITE, ANALOG

Appendix

Pin Assignment

Pin	Name
1	Red
2	Green
3	Blue
4	GND
5	DDC GND
6	Red GND
7	Green GND
8	Blue GND
9	No Connection
10	Sync GND
11	GND
12	DDC-SDA
13	H-Sync
14	V-Sync
15	DDC-SCL
Shell	GND

Pin Assignment of 15 Pin D-sub Connector



Display Modes

No	Mode	Resolution	Sync	Polarity	Pixel	Sync
1	VGA	640 x 350	H(Pixels)	+	25.175 MHz	31.468 KHz
			V(Lines)	-		70.0 Hz
2		720 x 400	H(Pixels)	-	28.322 MHz	31.468 KHz
			V(Lines)	+		70.0 Hz
3		640 x 480	H(Pixels)	-	25.175 MHz	31.469 KHz
			V(Lines)	-		60.0 Hz
4		640 x 480	H(Pixels)	-	30.24 MHz	35.00 KHz
			V(Lines)	-		66.67 Hz
5		640 x 480	H(Pixels)	-	31.5 MHz	37.50 KHz
			V(Lines)	-		75.0 Hz
6	SVGA	800 x 600	H(Pixels)	+	36.0 MHz	35.156 KHz
			V(Lines)	+		56.25 Hz
7		800 x 600	H(Pixels)	+	40.0 MHz	37.879 KHz
			V(Lines)	+		60.3 Hz
8		800 x 600	H(Pixels)	+	50.0 MHz	48.077 KHz
			V(Lines)	+		72.188 Hz
9		800 x 600	H(Pixels)	+	49.5 MHz	46.875 KHz
			V(Lines)	+		75.0 Hz
10	MAC	832 x 624	H(Pixels)	-	57.283 MHz	49.725 KHz
			V(Lines)	-		74.55 Hz
11	XGA	1024 x 768	H(Pixels)	-	65 MHz	48.363 KHz
			V(Lines)	-		60.0 Hz
12		1024 x 768	H(Pixels)	-	75 MHz	56.476 KHz
			V(Lines)	-		70.0 Hz
13		1024 x 768	H(Pixels)	+	78.75 MHz	60.023 KHz
			V(Lines)	+		75.0 Hz
14	SXGA	1280 x 1024	H(Pixels)	+	108.0 MHz	63.98 KHz
			V(Lines)	+		60.02 Hz
15		1280 x 1024	H(Pixels)	+	135 MHz	79.976 KHz
			V(Lines)	+		75.035 Hz

Appendix

Specifications

Category	Items	Descriptions
Image	Display Type Diagonal Size Pixel Pitch	Active Matrix Color TFT LCD 18.1” (H: 39.9cm, V: 28.72 cm) 0.28 mm * 0.28 mm
Optical	Luminance Viewing Angle Contrast Ratio Color Depth	200 cd/㎡ (typ.) H: 160 Deg., V: 160 Deg.<Typ.> 300 : 1(Typ.) 16.4 Million Colors (8 bits)
Electrical	Input Frequency Max. Resolution Connector Control type User control Power Input Volts/Freq Power Consumption	Horizontal: 31~60kHz / Vertical: 56~75Hz SXGA (1280 * 1024) @75Hz 15Pin D-SUB, S-video(4Pin), C video (RCA) Digital OSD Control 5 key buttons 100 ~ 240 VAC(Power Free) 50/60Hz Max. [45W], Power Saving Mode [5W]
Plug & Play	DDC EDID	2B 1.3
Mechanical	Dimension Set Size Box Size Weight Net Gross	448 * 461 * 185mm [W*H*D] 517 * 540 * 280mm [W*H*D] 8.6Kg 11.1Kg
Environment	Operation Temperature Humidity Storage Temperature Humidity	50°F to 104 °F(10 ℃ to 40 ℃) 10% to 80% 13°F to 113 °F(-25 ℃ to 45 ℃) 5% to 95%
Regulatory	Safety EMI VCCI MIC	UL 1950, CSA 950 /EN60950/IEC60959 FCC Class B/ EN 55022, 55024, EN61000-3-2/3 Class B Class B

Trouble Shooting

If you have a problem to set up or to use your LCD monitor, you may be able to solve it yourself. Before contacting customer service, try the suggested actions that are appropriate to your problem.

Symptoms	Corrective Action	Reference
Blank Screen Power Indication is off	Make sure that the power cord is firmly connected ; and check if the LED of the power adapter is green.	Connecting your LCD monitor, - page 7.
Power indicator is Amber “POWER SAVER MODE”	Make sure that the signal cable is firmly connected to PC Make sure that PC is turned on.	Connecting your LCD monitor, - page 7.
Power indication is Green “OUT OF FREQUENCY”	Make sure max. resolution and frequency of Video adapter of PC and check your video card support DDC and Plug and Play.	Display modes – page 17 Specification – page 18
Too dark or high Image	Control Brightness or Contrast	OSD functions and adjustment - page 12,14
Horizontal, vertical noise or jitter	Execute the Auto Configuration Control the Phase and Clock	User Control - page 9 OSD functions and adjustment - page 13
Horizontal or vertical position is not to center	Execute the Auto Configuration Control the Position	User Control - page 9 OSD functions and adjustment - page 13
Blank Screen	Control the Input Selection Key ; and make sure that the signal cable is firmly connected.	- page 7~9 - Owner’s manual for your TV or VCR.

Slimax®

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