

ATTACHMENT K – USERS MANUAL

Color Monitor

FLATRON

LCD 563LE/LS

User's Guide
Manuel d'utilisation
Guia del Usuario
Manual do proprietário

Please read this manual carefully before operating your set.

Retain it for future reference.

Record model number and serial number of the set.

See the label attached on the back cover and quote this information to your dealer when you require service.



FCC Warning

Class B Computing Device

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 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 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 and for additional suggestions.

The user may find the following booklet prepared by the Federal Communications Commission helpful: "How to Identify and Resolve Radio-TV Interference Problems." This booklet is available from the U.S. Government Printing Office, Washington, D.C. 20402, Stock No. 004-000-00345-4.

FCC Warning

The user is cautioned that changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

NOTE: In order for an installation of this product to maintain compliance with the limits for a Class B device, **shielded** cables must be used.

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Introduction

The FLATRON LCD 563LE/LS Flat Panel Monitor has an active matrix TFT (Thin-Film Transistor) LCD (Liquid Crystal Display).

This monitor is designed for use in small working areas or for those who need more working space on the desk.

ENGLISH

Features

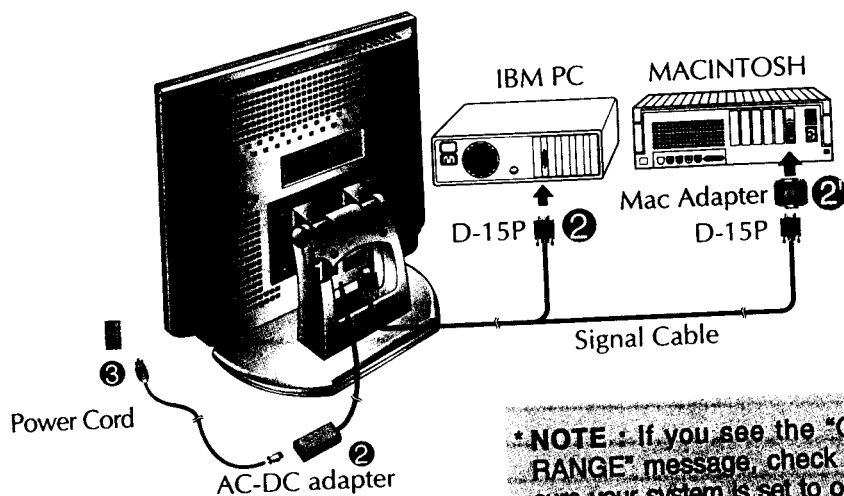
- The FLATRON LCD 563LE/LS is a 15.1-inch (15.1 inches viewable) intelligent microprocessor based monitor.
- Digitally controlled auto-scanning is done with the microprocessor for horizontal scan frequencies between 31 and 61kHz, and vertical scan frequencies between 56 and 75Hz.
- The microprocessor-based digital controls allow you to adjust conveniently a variety of image controls by using the OSD (On Screen Display).
- It supports resolutions up to 1024x768, and has a wide viewing angle of ± 60 degrees horizontal and ± 45 degrees vertical.
- The monitor is shipped with 14 factory pre-programmed video modes that are permanently resident. In addition, there are 16 user-storable modes, for a total of 30 memory modes.
- Plug and play capability if supported by your system.
- This monitor has DDC 2B function.*
- Compliant with the following regulated specifications :*
 - EPA ENERGY STAR
 - Swedish TCO'99

**For detailed information, please refer to the Reference Guide provided .*

Connecting the Monitor

On the back of the monitor are two plug-in connections; one for the AC power cord, and the other for the signal cable from the video card.

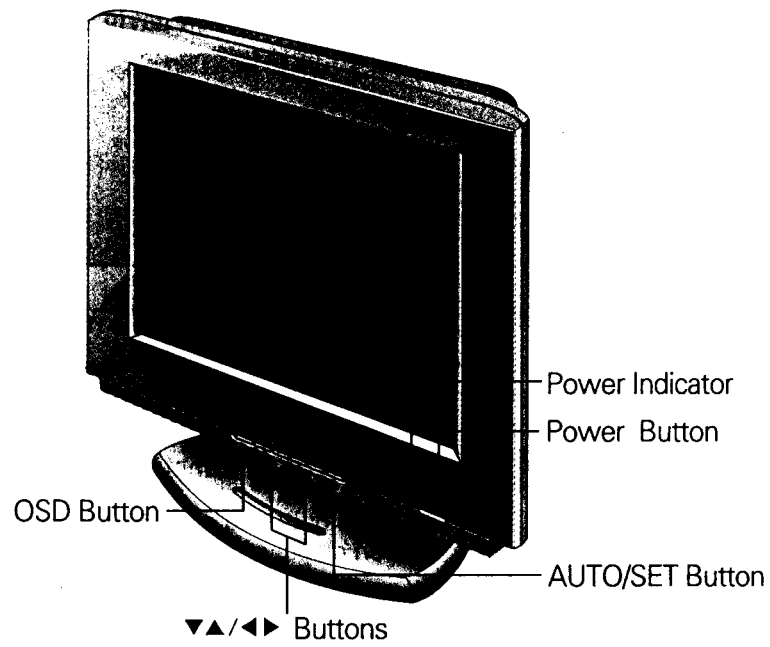
- 1 Power off both the monitor and PC.
- 2 Connect the 15 pin VGA connector of the supplied signal cable to the output VGA video connector on the PC and the matching input connector on the rear of the monitor. The connectors will mate only one way. If you cannot attach the cable easily, turn the connector upside down and try again. When mated, tighten the thumbscrews to secure the connection.
- 2 Locate the appropriate MAC to VGA adapter block at your local computer store. This adapter changes the high density 3 row 15 pin VGA connector to the correct 15 pin 2 row connection to mate with your MAC. Attach the other end of the signal cable to the side of the adapter block with 3 rows. Connect the attached adapter block/signal cable to the video output on your MAC.
- 3 Connect the plug from the AC-DC adapter into the connector on the display unit. 1 Connect one end of the AC power cord into the AC-DC adapter. 2 Plug the other end into a properly grounded three-prong AC outlet. 3
- 4 Power on the PC, then the monitor.
- 5 If you see the **NO SIGNAL** message, check the signal cable and connectors.
- 6 After using the system, power off the monitor, then the PC.



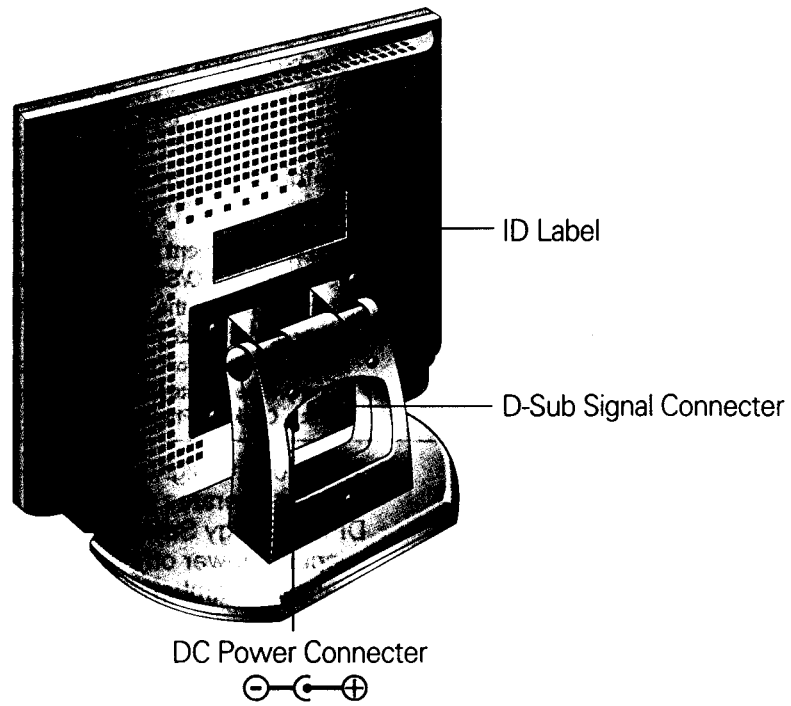
***NOTE:** If you see the "OUT OF RANGE" message, check to make sure your system is set to one of the factory preset modes. (see page A8)

Location and Function of Controls

Front View

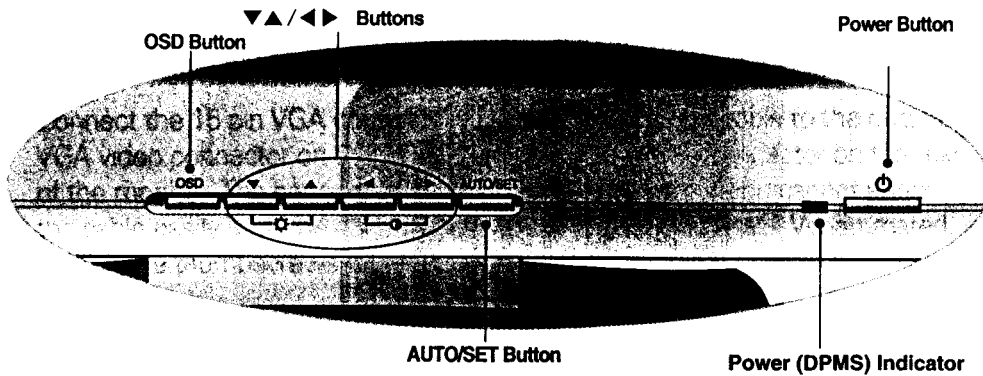


Rear View



Control Panel Function

Front Panel Controls



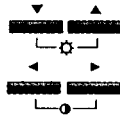
Control

Function



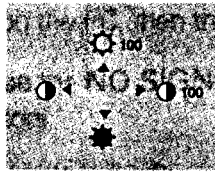
OSD Button

Use this button to enter and from the on screen display (OSD).



Buttons

Use these buttons to choose or adjust items in the on screen display.



<Shortcut Keys>

- Brightness and Contrast can be adjusted directly without entering the On Screen Display (OSD) system. Touch the **▼/▲/◀/▶** buttons to adjust the settings and then the **OSD button** to save all changes. The Brightness and Contrast functions are also available in the On Screen Display (OSD) menu.



AUTO/SET Button

Use this button to enter a selection in the on screen display.



* AUTO adjustment function

Touch the **AUTO/SET** button before using OSD menu. This button is for the automatic adjustment of the screen position, clock and phase.

Note: Some signal from some graphics boards may not function properly. If the results are **unsatisfactory**, adjust your monitor's Position, Clock and Phase manually.



Power (DPMS) Indicator

This indicator lights up green when the monitor operates normally. If the monitor is in DPM (Energy Saving) mode (stand-by/suspend/power off), this indicator color changes to amber.



Power Button

Use this button to turn the monitor on or off.

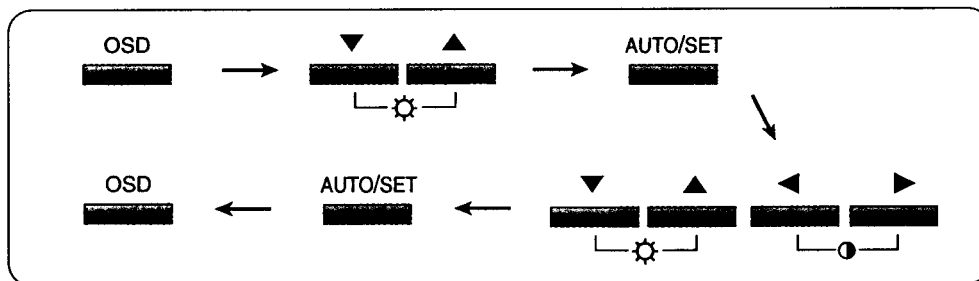
On Screen Display (OSD) Control Adjustment

이 메뉴는 쉽다.
Making adjustments to the image size, position and operating parameters of the monitor are quick and easy with the On Screen Display Control system. A quick example is given below to familiarize you with the use of the controls. Following section is an outline of the available adjustments and selections you can make using the OSD.

NOTE

OSD menu is active for 30 minutes. If no adjustments are made, the OSD will disappear.

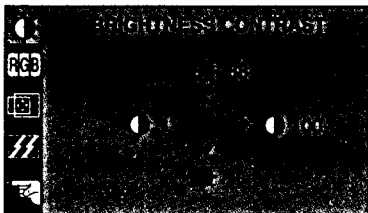


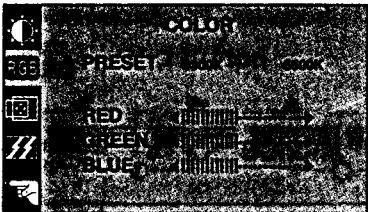
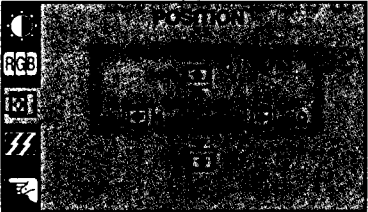


To make adjustments in the On Screen Display, follow these steps:



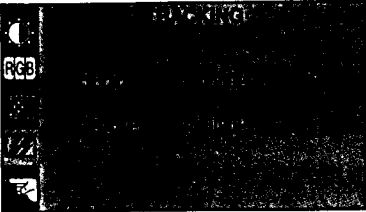
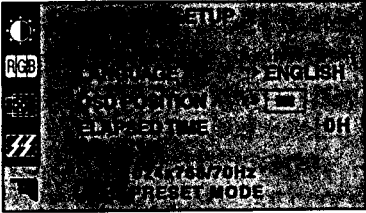
- 1** Press the **OSD Button**, then the main menu of the OSD appears.
- 2** To access a control, use the **▼▲ Buttons**. When the icon you want becomes highlighted, press the **AUTO/SET Button**.
- 3** Use the **▼▲/◀▶ Buttons** to adjust the item to the desired level.
- 4** Accept the changes by pressing the **AUTO/SET Button**.
- 5** Exit the OSD by Pressing the **OSD Button**.

On Screen Display(OSD) Selection and Adjustment

You were introduced to the procedure of selection and adjusting an item using the OSD system. Listed below are the icons, icon names, and icon descriptions of the items that are shown on the Menu.

OSD Adjust	Description
	<p> Brightness Used to adjust the brightness of the screen.</p> <p> Contrast Adjust the display to the contrast desired.</p>
	<p>PRESET 9300K/ 6500K To appear the displays color temperature.</p> <ul style="list-style-type: none"> • 9300K:Slightly bluish white. • 6500K:Slightly reddish white. <p>RED To set your own color levels.</p> <p>GREEN To set your own color levels.</p> <p>BLUE To set your own color levels.</p>
	<p> Vertical Position To move image up and down.</p> <p> Horizontal Position To move picture image left and right.</p>

On Screen Display(OSD) Selection and Adjustment

OSD Adjust	Description
	<p>CLOCK To minimize any vertical bars or stripes visible on the screen background. The horizontal screen size will also change.</p> <p>PHASE To adjust the focus of the display. This item allows you to remove any horizontal noise and clear or sharpen the image of characters.</p>
	<p>LANGUAGE To choose the language in which the control names are displayed.</p> <p>OSD POSITION To adjust position of the OSD window on the screen.</p> <p>ELAPSED TIME To display the use time of monitor</p>

Video Memory Modes

The monitor has 30 memory locations for display modes, 14 of which are factory preset to popular video modes.

Display Modes (Resolution)

	Display Modes (Resolution)	Horizontal Freq.(kHz)	Vertical Freq.(Hz)
1	VGA 640 x 350	31.47	70
2	VGA 720 x 400	31.47	70
3	VGA 640 x 480	31.47	60
4	MAC 640 x 480	35.00	67
5	VESA 640 x 480	37.86	73
6	VESA 640 x 480	37.50	75
7	VESA 800 x 600	35.16	56
8	VESA 800 x 600	37.88	60
9	VESA 800 x 600	48.08	72
10	VESA 800 x 600	46.88	75
11	MAC 832 x 624	49.72	75
12	VESA 1024 x 768	48.36	60
13	VESA 1024 x 768	56.48	70
14	VESA 1024 x 768	60.02	75

Note : This LCD monitor has been pre-adjusted to the video mode of VESA 1024x768 @75Hz.

User Modes

- Modes 15-30 are empty and can accept new video data. If the monitor detects a new video mode that has not been present before or is not one of the preset modes, it stores the new mode automatically in one of the empty modes starting with mode 15.

If you use up the 16 blank modes and still have more new video modes, the monitor replaces the information in the user modes starting with mode 15.

Troubleshooting

Check the following before calling for service.

Display Position is incorrect.

- Push the **AUTO/SET** Button.
- If the results are unsatisfactory, adjust the image position using the H position and V position icon in the on screen display.

On the screen background, vertical bars or stripes are visible.

- Push the **AUTO/SET** Button.
- If the results are unsatisfactory, decrease the vertical bars or stripes using the **CLOCK** icon in the on screen display.

Any horizontal noise appearing in any image or characters are not clearly portraided.

- Push the **AUTO/SET** Button.
- If the results are unsatisfactory, decrease the horizontal bars using the **PHASE** icon in the on screen display.

NO SIGNAL message.

- The signal cable is not connected, or is loose. Check and secure the connection.

OUT OF RANGE message appears.

Picture is blank.

- The frequency of the signal from the video card is outside the operating range of the monitor.

Horizontal Frequency: 31kHz-61kHz

Vertical Frequency: 56Hz-75Hz

* Use the graphics board's utility software to change the frequency setting (Refer to the manual for graphics board).

* You can change the setup to the supported resolution using the **Safe Mode** (Press the F8 key during booting the system).


The power LED is illuminated amber.

- The monitor is in its display power management mode.
- There is no active signal coming from the PC.
- The signal cable is not fastened securely.
- Check the computer power and graphics adapter configuration.

The monitor doesn't enter the power saving off mode (Amber).

- Computer video signal is not VESA DPMS standard. Either the PC or the video controller card is not using the VESA DPMS power management function.

Specifications

Display	Type	15.1inch (38.35cm) Flat Panel Active matrix-TFT LCD, Anti-Glare coating
	Viewable Size	15.1inch (38.35cm)
	Pixel pitch	0.3 x 0.3mm
	True color	FLATRON LCD 563LE : 16,7 million color FLATRON LCD 563LS : 262,144 color
Sync Input	Horizontal Freq.	31 - 61kHz (Automatic)
	Vertical Freq.	56 - 75Hz (Automatic)
	Input Form	Separate TTL, Positive/Negative
	Signal Input	15 pin D-Sub Connector
Video Input	Display Area	307 x 230mm / 12.1 x 9.1inch
	Input Form	Separate, RGB Analog, 0.714Vp-p/75ohm, Positive
	Resolution	VESA 1024 x 768/ 75Hz max
Power Consumption	Normal	≤ 30W
	Stand-by/Suspend	≤ 3W
	Power Off	≤ 3W
Dimensions	Width	38.92 cm / 15.95 inches
	Height	36.16 cm / 14.24 inches
	Depth	18.24 cm / 7.18 inches
Power Input		DC 12V 3A
	Input	AC 100-240V 50-60Hz 1.2A~0.6A
	Output	DC 12V 1.5A 
	Net	4.8 kg (10.58 lbs)
	Down	5°
	Up	30°
		Operating Condition
	Temperature	10 °C to 35 °C
	Humidity	10 % to 80 % non-Condensing
	Storage Condition	
	Temperature	-20 °C to 60 °C
	Humidity	5 % to 95 % non-Condensing