

ATTACHMENT E. - USER'S MANUAL(2)



L50A 15" TFT LCD Color Monitor

NEXT

BACK

3-4. Setting the refresh rate

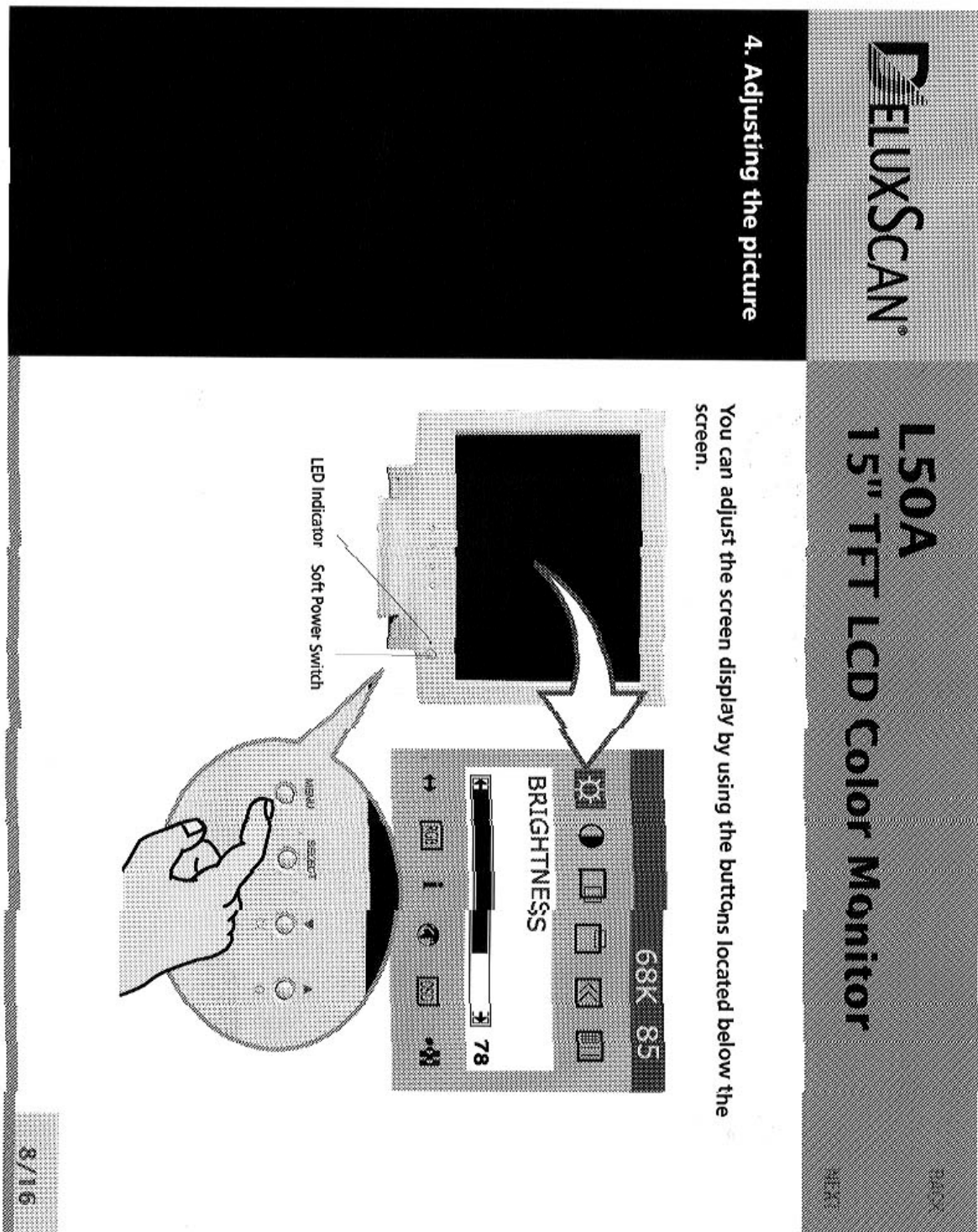
- Follow the instructions below to set your refresh rate in Windows 98.
1. Go to the configuration window(Start-Settings-Configuration window).
 2. Double click on the 'Display' icon.
 3. Click on the 'Settings' tab.
 4. Click on the 'Advanced' button.
 5. Click on 'Adapter' and select 60Hz from the list.
 6. Click on 'Apply' to accept the selected value.

The recommended setting is a resolution of 1024x768 and a refresh rate of 60Hz.

Preset Timing Table

No.	Resolution	Horizontal Frequency	Refresh rate
1	640 x 350	31.5 KHz	70 Hz
2	640 x 400	31.3 KHz	70 Hz
3	720 x 400	31.5 KHz	70 Hz
4	640 x 350	37.9 KHz	85 Hz
5	640 x 400	37.9 KHz	85 Hz
6	720 x 400	37.9 KHz	85 Hz
7	640 x 480	31.5 KHz	60 Hz
8	640 x 480	37.9 KHz	73 Hz
9	640 x 480	43.3 KHz	85 Hz
10	800 x 600	35.2 KHz	56 Hz
11	800 x 600	37.9 KHz	60 Hz
12	800 x 600	48.1 KHz	72 Hz
13	800 x 600	46.9 KHz	75 Hz
14	800 x 600	53.7 KHz	85 Hz
15	832 x 624	49.7 KHz	75 Hz
16	1024 x 768	35.5 KHz	43 Hz
17	1024 x 768	48.4 KHz	60 Hz
18	1024 x 768	56.5 KHz	70 Hz
19	1024 x 768*	60.0 KHz	75 Hz
20	1024 x 768	68.7 KHz	85 Hz

*Recommended primary mode.





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4-1. Using the On Screen Display

4-2. Direct access buttons

1. Push the MENU button to call the OSD to the screen. The resolution and frequency are displayed at the top of the menu box for your information.
1 *The resolution are displayed only preset mode timing.*
2. Push the ▲ or ▼ button to choose the item you want to adjust. The selected item is highlighted.
3. Push the SELECT button to adjust the highlighted item.
4. Use the ▲ or ▼ button to adjust the selection.
5. Push the SELECT button to return to the previous menu if you are in a submenu.
6. The display unit automatically saves the new settings in 1 second after your last adjustments and the menu disappears. You can also push the MENU button to make the menu disappear.



BRIGHTNESS

Use the button ▼ to select the brightness adjustment.
Adjust with ▲ or ▼ button.



CONTRAST

Use the button ▲ to select the contrast adjustment.
Adjust with ▲ or ▼ button.

SELECT

AUTO ADJUST

Push the button SELECT (AUTO) to adjust the shape of screen automatically.

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4-3. OSD Adjustments

You can play the movie file to see how to adjust the picture image by clicking each icon or title hereunder.

The OSD adjustments available to you are listed below.



BRIGHTNESS
Adjusts the brightness of the screen.



CONTRAST
Adjusts the contrast of the screen.



H-POSITION
Adjusts the horizontal position of the entire screen image.



V-POSITION
Adjusts the vertical position of the entire screen image.



CLOCK (WIDTH)
Adjusts the horizontal size of the entire screen image.



CLOCK-PHASE
Adjusts the noise of the screen image.



AUTO ADJUST
Adjust the shape of screen automatically.



COLOR CONTROL
Color temperature affects the tint of the image. With lower color temperatures the image turns reddish and with higher temperatures bluish.



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EACH

TEXT

There are three color settings available: 9300K, 6500K or USER. With the USER setting you can set individual values for red, green and blue.

! INFORMATION

Information shows the horizontal and vertical frequency of your display unit. The Information menu lists modes which are preset at the factory and modes which have been defined by user. It also shows you the mode your display unit is currently operating in. you can set the display mode (frequency and refresh rate) in Windows.



LANGUAGE

You can select the language in which adjustment menus are displayed. The following languages are available: English, French, German, Italian, Spanish, Swedish, Finnish, Danish, Portuguese and Japanese or Korean.



OSD ADJUST

You can adjust the OSD menu's horizontal or vertical position on the screen. You can also adjust display time of the OSD menu from 5 to 50 seconds.



TEST PATTERN

Displays internal test pattern.



The Clock Phase may not be optimized when the input timing is not comply with VESA standard timing. In order to get the optimized result of Auto Adjust Function, it is recommended to display bright color image on the entire screen before proceeding Auto Adjust Function.



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HEAT

5. Display power management

Reducing power consumption

If the power management function of your computer is enabled, your monitor turns on and off automatically. You can control power management features from your computer.

Your computer may have power management features which enable the computer or monitor to enter a power saving mode when the system is idle. You can reactivate the system by pressing any key or moving the mouse.

Mode	LED	Power consumption
Normal	Green	40 W
Suspend	Green/Orange blinking (0.5sec.)	≤ 10 W
off	Orange	≤ 5 W
Unplugged	Not illuminated	0 W

i The power button does not disconnect the monitor from the mains. The only way to isolate the monitor completely from the mains supply is to unplug the mains cable.

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6. Troubleshooting

If your monitor is not functioning properly, you may be able to solve the problem by reading followings.

Problem	Possible solution
Blank screen	If the power LED is not lit, push the Soft power switch or check the AC cord to turn the monitor on. If the display unit is powered through the computer, check that the computer is switched on. The display unit might be in standby mode. Push one of the keyboard keys. Check that the keyboard is properly connected to the computer. Check that the signal cable connector is properly connected and that the connection pins are not bent or damaged. If the connector is loose, tighten the connector's screws. Check that the power cable is correctly connected to the display unit and to the power outlet.
Error message: <i>OUT OF RANGE</i>	The graphics adapter is set for too high refresh rate or line frequency. Select another display mode with lower frequencies in computer.
The display does not enter power management mode	The video signal from the computer does not comply with VESA DPM's standard. Either the computer or the graphics adapter is not using the VESA DPM's power management function.



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Problem	Possible solution
Color defects	Check that the signal cable connector is properly connected and that the connection pins are not bent or damaged. Try another color temperature.
Size, position, shape or quality unsatisfactory	Adjust the picture characteristics as described in the section <i>Adjusting the picture</i> .
Duplicated images	A problem with your graphics adapter or display unit. Contact your service representative.
Windows Plug and Play does not recognize the monitor	If your computer is DDC compatible, the display type is automatically correct. If, however, you need to change the display type, you will find the display units listed under Hyundai Electronics in the manufacturer's list.

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Contacting service

If the above troubleshooting hints do not help you find a solution to the problem, contact an authorized service agent. If the monitor is sent for service, use the original package if possible.

Unplug the display unit from the power outlet and contact a service agent when:

- The monitor does not operate normally according to the operating instructions.
- The monitor exhibits a distinct change in performance.
- The monitor has been dropped or the cabinet has been damaged.
- The monitor has been exposed to rain, or water or liquid has been spilled onto the monitor.

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7. Specifications

LCD	15"viewable, Diagonal
Brightness	Dot pitch 0.297 mm, AM-TFT 180cd/m ² (Min.), 200cd/m ² (Typ.)
Response Time	40msec Max.
Display area	304 X 228 mm
Number of color	256 K colors
Input signals	R,G,B Analog, 15 pin D-sub
Frequency rate	Horizontal : 31.3 to 68.6kHz, Vertical : 43 to 85Hz
Maximum bandwidth	94.5 MHz
Maximum resolution	1024X768@85Hz
Input voltage	100 - 220 VAC, 1.5 A
Power consumption	40W
Power management	VESA DPMS
Plug & Play	VESA DDC 1/2B
OSD menu	BRIGHTNESS, CONTRAST, H. POSITION, V. POSITION, CLOCK, CLOCK-PHASE, AUTO ADJUST, COLOR CONTROL, INFORMATION, LANGUAGE, OSD ADJUST, TEST
Ergonomics, Safety and EMC	TCO FCC Class B, CE, CUL, TÜV-GS, NEMKO, DEMKO, FMKO, SEMKO
Operating Temperature	5 ~ 35°C
Weight	27Kg unpacked, 40Kg packed
Dimensions (W X H X D mm)	367 X 353 X 188 mm

• Specification is subject to change without notice for performance improvement.