

ATTACHMENT E. USERS MANUAL



3.6. 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 85Hz from the list.
6. Click on 'Apply' to accept the selected value.

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The recommended setting is a resolution of 1280x1024(1600x1200) and a refresh rate of 85Hz.

Preset Timing Table

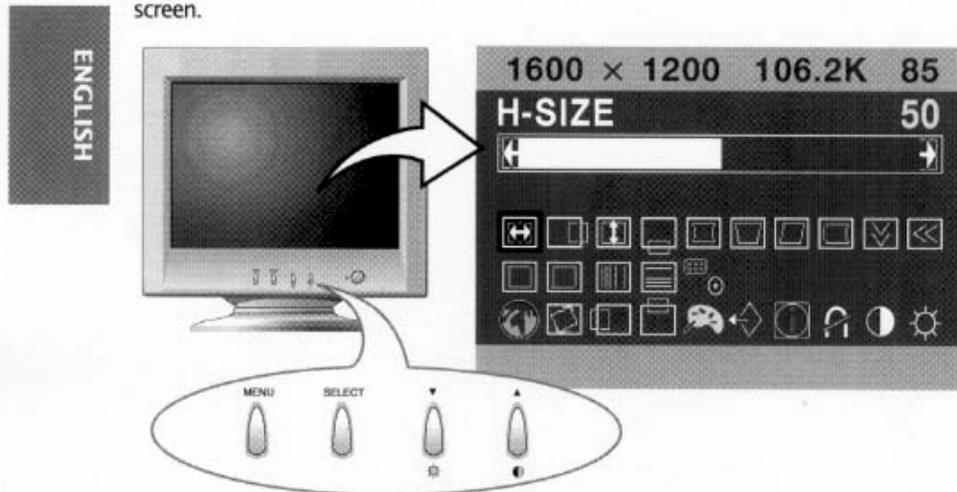
No.	Resolution	Horizontal Frequency	Refresh rate
1	720 × 400	31.5 KHz	70 Hz
2	640 × 480	31.5 KHz	60 Hz
3	640 × 480	63.7 KHz	120 Hz
4	800 × 600	53.7 KHz	85 Hz
5	1152 × 864	67.5 KHz	75 Hz
6	1024 × 768	86.7 KHz	85 Hz
7	1024 × 768	81.8 KHz	100 Hz
8	1280 × 1024	79.9 KHz	75 Hz
9	1280 × 1024	91.1 KHz	85 Hz
10	1600 × 1200	93.8 KHz	75 Hz
11	1600 × 1200	106.3 KHz	85 Hz

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G910 User's Guide

4. Adjusting the picture

You can adjust the screen display by using the buttons located below the screen.



4.1. To use the OSD control

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.
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 3 to 4 seconds after your last adjustments and the menu disappears. You can also push the MENU button to make the menu disappear.

4.2. Direct access buttons

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.

4.3. OSD Adjustments

The OSD adjustments available to you are listed below.

**H. Size**

Adjusts the horizontal size of the entire screen image.

**H. Position**

Adjusts the horizontal position of the entire screen image.

**V. Size**

Adjusts the vertical size of the entire screen image.

**V. Position**

Adjusts the vertical position of the entire screen image.

**Pincushion**

If the vertical sides of the picture curve in or bulge out, you can correct the pincushion distortion by using this adjustment.

**Trapezoid**

If the picture is wider at the top or at the bottom, you can correct the trapezoid distortion by using this adjustment.

**Parallel**

If the sides of the screen image are tilted, you can correct the parallel distortion by using this adjustment.

**Pin balance**

If the sides of the picture are bowed to the right or to the left, you can correct the pincushion balance by using this adjustment.

**V. Moire**

Clears vertical moire if a series of concentric circles or arcs appear on your screen.

**H. Moire**

Clears horizontal moire if a series of concentric circles or arcs appear on your screen.

G910 User's Guide

ENGLISH

Moire is an interference pattern that makes the screen seem to have faint lines. A picture that is rasterised or consists of (small) repeating figures is sensitive to moire interference. Strong colors are also liable to intensify moire.

The moire pattern on the screen does not affect the printout of the image.



TOP CORNER

If the top corner sides of the picture curve in or bulge out, you can correct the top corner distortion by using this adjustment.



BOTTON CONER

If the bottom corner sides of the picture curve in or bulge out, you can correct the bottom corner distortion by using this adjustment.



H-LINEARITY

If either left or right side of the picture is out of proportion to the other, you can correct horizontal linearity by using this adjustment.



V-LINEARITY

If either top or bottom side of the picture is out of proportion to the other, you can correct vertical linearity by using this adjustment.



BNC / D-SUB

Press the SELECT button to select signal source. (BNC or D- SUB)



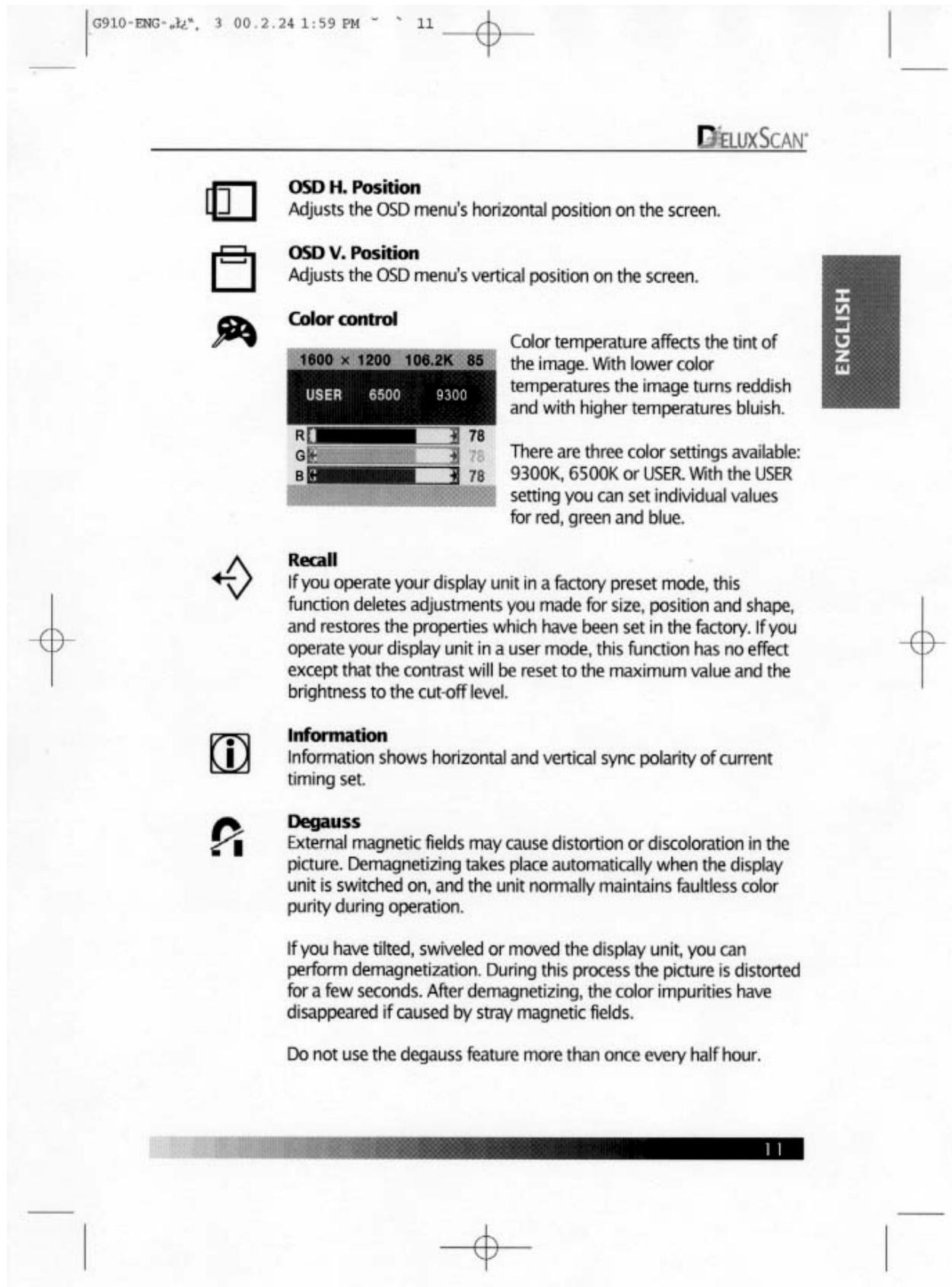
Language

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



Rotation

If the entire screen image is tilted, you can correct the distortion by using this adjustment.



OSD H. Position

Adjusts the OSD menu's horizontal position on the screen.



OSD V. Position

Adjusts the OSD menu's vertical position on the screen.



Color control

1600 x 1200	106.2K	85
USER	6500	9300
R	<input type="text" value="78"/>	78
G	<input type="text" value="78"/>	78
B	<input type="text" value="78"/>	78

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

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

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Recall

If you operate your display unit in a factory preset mode, this function deletes adjustments you made for size, position and shape, and restores the properties which have been set in the factory. If you operate your display unit in a user mode, this function has no effect except that the contrast will be reset to the maximum value and the brightness to the cut-off level.



Information

Information shows horizontal and vertical sync polarity of current timing set.



Degauss

External magnetic fields may cause distortion or discoloration in the picture. Demagnetizing takes place automatically when the display unit is switched on, and the unit normally maintains faultless color purity during operation.

If you have tilted, swiveled or moved the display unit, you can perform demagnetization. During this process the picture is distorted for a few seconds. After demagnetizing, the color impurities have disappeared if caused by stray magnetic fields.

Do not use the degauss feature more than once every half hour.

G910 User's Guide



Brightness
Adjusts the brightness of the screen.



Contrast
Adjusts the contrast of the screen.

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5. Power management

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.

Reducing power consumption

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	80 W
Standby	Green/Orange blinking (1 sec.)	≤ 15 W
Suspend	Green/Orange blinking (0.5sec.)	≤ 15 W
Off	Orange	≤ 5 W
Power Switch off	Not illuminated	≤ 4 W
Unplugged	Not illuminated	0 W

! The power button does not disconnect the display unit from the mains. The only way to isolate the display unit completely from the mains supply is to unplug the mains cable.



6. Troubleshooting

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

Problem	Possible solution
<p>Blank screen</p>	<p>If the power LED is not lit, push the power switch to turn the monitor on. If the display unit is powered through the computer, check that the computer is switched on.</p> <p>The display unit might be in standby mode. Push one of the keyboard keys. Check that the keyboard is properly connected to the computer.</p> <p>Check that the power cable is correctly connected to the display unit and to the power outlet.</p>
<p>Error message: OUT OF RANGE</p>	<p>The graphics adapter is set for too high refresh rate or line frequency. Select another display mode with lower frequencies in computer.</p>
<p>Self diagnostics message NO SIGNAL</p>	<p>This message indicates that the signal is missing or faulty. 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.</p>
<p>The display does not enter power management mode</p>	<p>The video signal from the computer does not comply with VESA DPMS standard. Either the computer or the graphics adapter is not using the VESA DPMS power management function.</p>
<p>Screen flickers</p>	<p>The screen may seem to flicker when the refresh rate is less than 75Hz. See the list of recommended modes in the section <i>Preset timing table</i>.</p>
<p>Color defects</p>	<p>If your color is not uniform, demagnetize the display unit as described in the section OSD adjustments, and make sure that the display unit is at least 30cm from any other electrical equipment.</p>

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G910 User's Guide

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Problem	Possible solution
	<p>Check that the signal cable connector is properly connected and that the connection pins are not bent or damaged. Try another color temperature. If the picture has strong color defects, switch off the display unit and the computer.</p>
<p>Size, position, shape or quality unsatisfactory</p>	<p>Make sure that other electrical devices are at least 30cm away. Adjust the picture characteristics as described in the section <i>Adjusting the picture</i>.</p>
<p>Duplicated images</p>	<p>A problem with your graphics adapter or display unit. Contact your service representative.</p>
<p>Windows Plug and Play does not recognize the monitor</p>	<p>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 manufacture's list.</p>

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.



7. Specifications

CRT	SIZE	19"(18" viewable)
	Dot Pitch	0.26 mm
	Type	Non-glare, Anti-Static & TCO Coated
Input	Signal	R.G.B Analog
	Connector	15 pin D-sub, BNC optional
SYNC	H-Frequency	30~110kHz
	V-Frequency	50~150Hz
Video Bandwidth		261MHz Max
Display	Area	350X260mm (Max. OVERSCAN)
	Color	Infinite
Resolution(max)		1600X1200@85Hz
User Controls		H/V Size, H/V Position, Pincushion, Trapezoid, Parallel, Pin Balance, H/V- Moire, Top corner, Botton corner, H/V Linearity, BNC/D-sub, Rotation, Languages, Recall, Information, Degauss, Color Control, OSD H/V Position, Brightness, Contrast,
Power Management		VESA DPMS standard Lower than EPA recommendation
Plug & Play		VESA DDC 1/2B
Compatibility		VESA, 8514/A, XGA, EVGA, MAC II
Power Source		100-240 VAC 130W
Ergonomics, Safety and EMC		TCO'99 FCC Class B, CE, EMC UL, CSA, TÜV-GS, ISO-9241-3/7/8, DHHS, NEMKO,DEMKO, FIMKO, SEMKO, PCBC, GOST-R, VCCI
Operating Temperature		0 ~ 40 °C
Weight	Unit	18.5Kg
	Carton	22Kg
Dimension(W×H×Dmm)		446 × 465.5 × 468.5 mm

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