

ATTACHMENT E. - USER'S MANUAL (2)

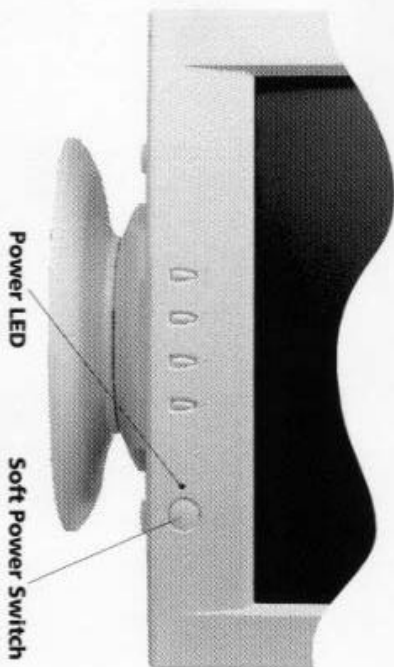
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1. Insert the 15-pin signal cable connector to the VGA connection on your computer and screw it down. (BNC OPTION : For BNC user, insert BNC connectors into the BNC connection on the monitor and PC)
2. Plug the display unit's power cable first to the back of the display unit.
3. Then plug the power cable to a 100V - 240V earthed electrical outlet or to the system unit, if it has an outlet for the display power cable.
4. Turn on the display unit using the Soft power switch and check that the power LED is on. If not, repeat steps 3, 4 and 5 or refer to the *Troubleshooting* section of this guide.



5. Turn on the power to the computer. The picture will appear within about 15 seconds. Adjust the picture to obtain optimum picture quality. See the section *Adjusting the picture* in this guide for more information.

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3-5. 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.

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

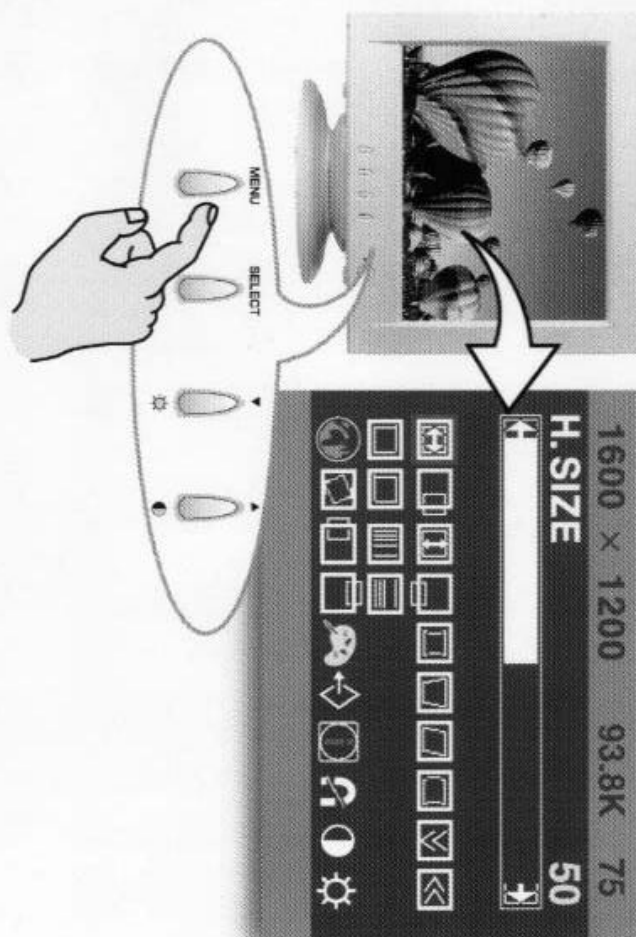
Preset Timing Table

No.	Resolution	Horizontal Frequency	Refresh rate
1	720 x 400	31.5 KHz	70 Hz
2	640 x 480	31.5 KHz	60 Hz
3	640 x 480	63.7 KHz	120 Hz
4	800 x 600	53.7 KHz	85 Hz
5	1152 x 864	67.5 KHz	75 Hz
6	1024 x 768	68.7 KHz	85 Hz
7	1024 x 768	81.8 KHz	100 Hz
8	1280 x 1024	79.9 KHz	75 Hz
9	1280 x 1024	91.1 KHz	85 Hz
10	1600 x 1200	93.8 KHz	75 Hz
11	1600 x 1200	106.3 KHz	85 Hz

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



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4-1. Using the On Screen Display

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.

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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.



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.

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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.

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.



BOTTOM CORNER

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

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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 top and bottom side of the picture is out of proportion to the center area, you can correct vertical linearity by using this adjustment.



BNC / D-SUB (Option)

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.

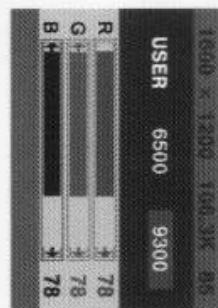
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COLOR CONTROL



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.



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.



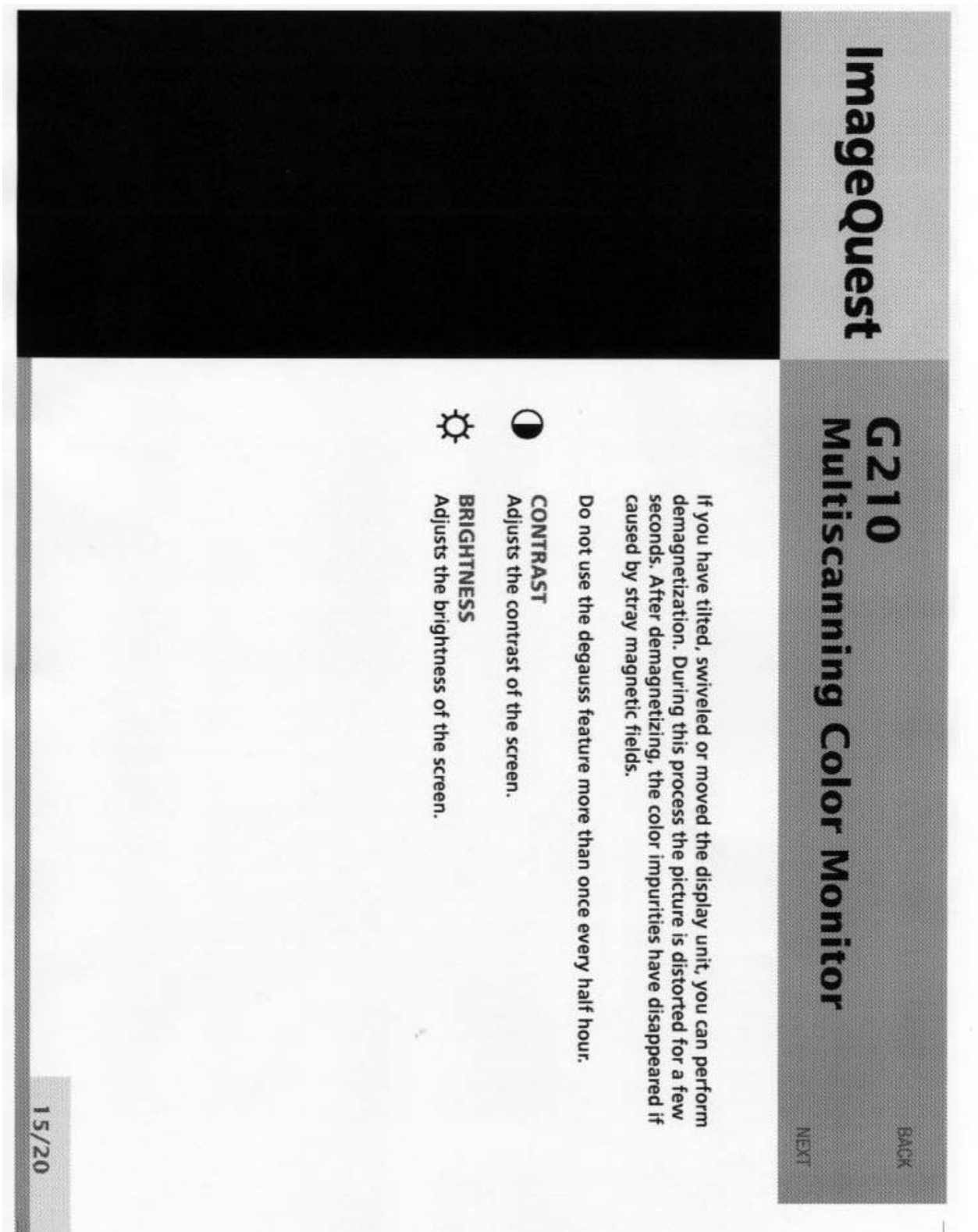
INFORMATION

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.



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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	≤ 145 W
Standby	Green/Orange blinking (1sec.)	≤ 15 W
Suspend	Green/Orange blinking (0.5sec.)	≤ 15 W
off	Orange	≤ 5 W
Unplugged	Not illuminated	0 W

I The power button at the front bezel does not disconnect the display unit from the mains. There are two ways to isolate the display unit completely from the mains supply. One is to unplug the mains cable, and other is to turn off the power switch (option) at the rear bezel of the monitor.

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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 Power switch(option) 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 power cable is correctly connected to the display unit and to the power outlet.
Error message: OUT OF RANGE	The graphics adapter is set for too high refresh rate or line frequency. Select another display mode with lower frequencies in computer.
Self diagnostics message NO SIGNAL	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.

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Problem	Possible solution
The display does not enter power management mode	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.
Screen flickers	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> .
Color defects	If your color is not uniform, demagnetize the display unit as described in the section <i>Degauss under OSD adjustments</i> , and make sure that the display unit is at least 30cm from any other electrical equipment.
Size, position, shape or quality unsatisfactory	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. Make sure that other electrical devices are at least quality 30cm away. 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.

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Contacting service

Problem	Possible solution
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 manufacture's list.

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

Picture tube	21"(viewable size : 19") Dot pitch 0.25 mm Anti-Static, anti-glare, TCO treatment coated.
Display area	factory preset area : 400X299 mm
Number of color	Infinite
Input signals	R,G,B Analog, 15 pin D-sub, BNC optional
Frequency rate	Horizontal : 30 to 107KHz, Vertical : 50 to 150Hz
Maximum bandwidth	261 MHz
Maximum resolution	1600X1200@85Hz
Input voltage	100-240 VAC
Power consumption	140W
Power Management	VESA DPMS Lower than EPA recommendation
Plug & Play	VESA DDC 1/2B
OSD menu	H/V SIZE, H/V POSITION, PINCUSHION, TRAPEZOID, PARALLEL, PIN BALANCE, H/V- MOIRE, TOP CORNER, BOTTOM CORNER, H/V LINEARITY, BNC/D-SUB(OPTION), LANGUAGES, ROTATION, OSD H/V POSITION, COLOR CONTROL, RECALL, INFORMATION, DEGAUSS, BRIGHTNESS, CONTRAST
Ergonomics, Safety and EMC	TCO FCC Class B, CE, UL, CSA, TUV-GS, ISO-9241-3/7/8, DHHS, NEMKO, DEMKO, FIMKO, SEMKO
Operating Temperature	0 ~ 40°C
Weight	24.3Kg unpacked, 29.3Kg packed
Dimensions (W X H X D mm)	500 X 495.3 X 484.5 mm

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