

ATTACHMENT E

- USERS MANUAL (2)


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

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



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



GEOMETRY
You can select following OSD menu by selecting GEOMETRY.



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



Top corner balance
If the top corner sides of the picture are convex or concave, you can correct such distortion by using this adjustment.



Bottom corner balance
If the bottom corner sides of the picture are convex or concave, you can correct such distortion by using this adjustment.

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OP **OPTION**


You can select following OSD menu by selecting OP:


 **BNC / D-sub**
Press the SELECT button to select signal source.


HC **Horizontal convergence**
If the shadows appear around the text or graphic image, you can remove them horizontally by using this adjustment.

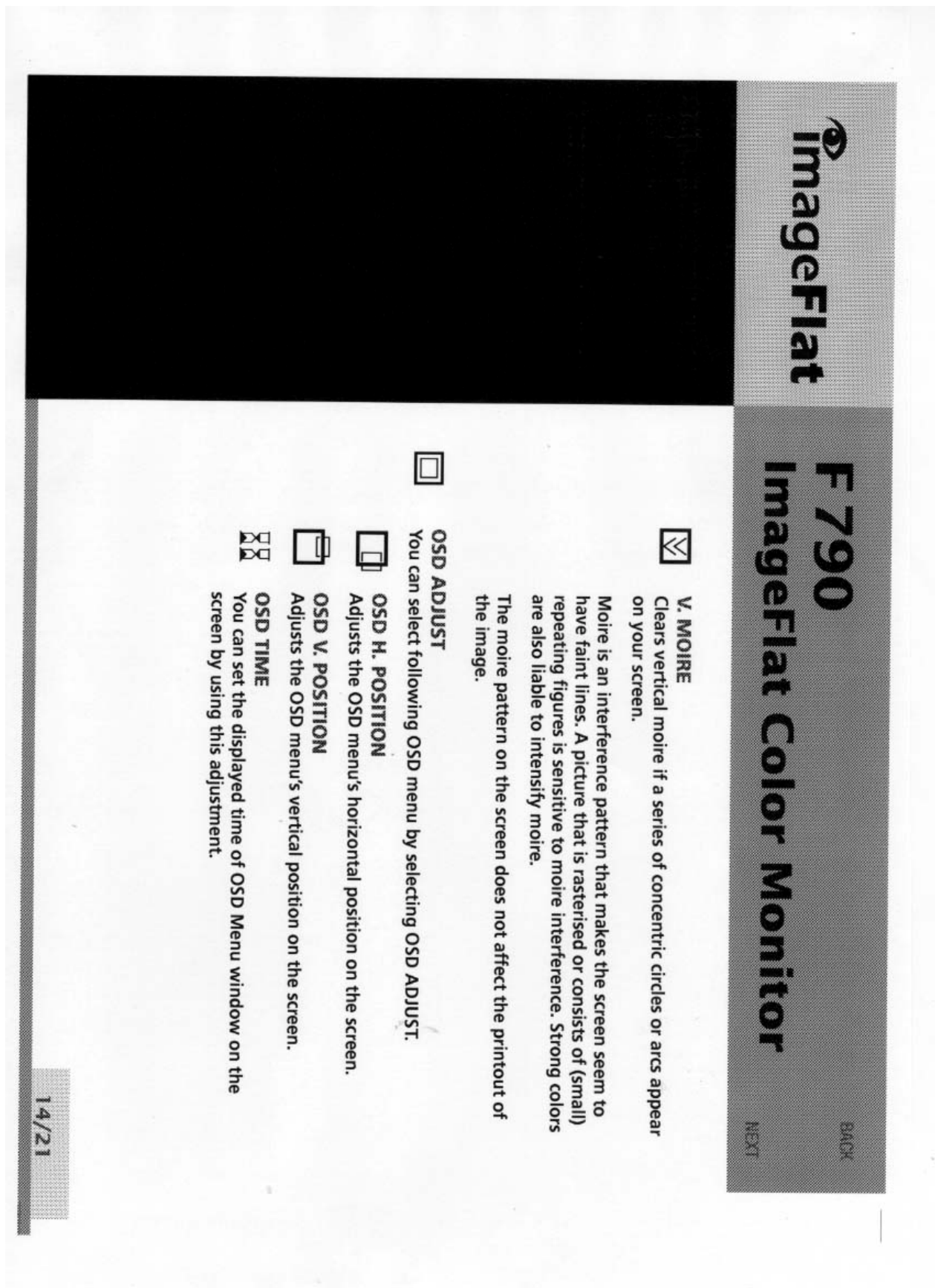
VC **Top corner balance**
If the top corner sides of the picture are convex or concave, you can correct such distortion by using this adjustment.

PU **Bottom corner balance**
If the bottom corner sides of the picture are convex or concave, you can correct such distortion by using this adjustment.

 **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.

 **MOIRE**
You can select following OSD menu by selecting MOIRE.

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



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V. MOIRE
 Clears vertical 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.



OSD ADJUST
 You can select following OSD menu by selecting OSD ADJUST.



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.



OSD TIME
 You can set the displayed time of OSD Menu window on the screen by using this adjustment.

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COLOR CONTROL

1600 x 1200	93K	75
COLOR CONTROL		
6500	9800	
R R		63
G G	FIXED	
B B		59

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 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.



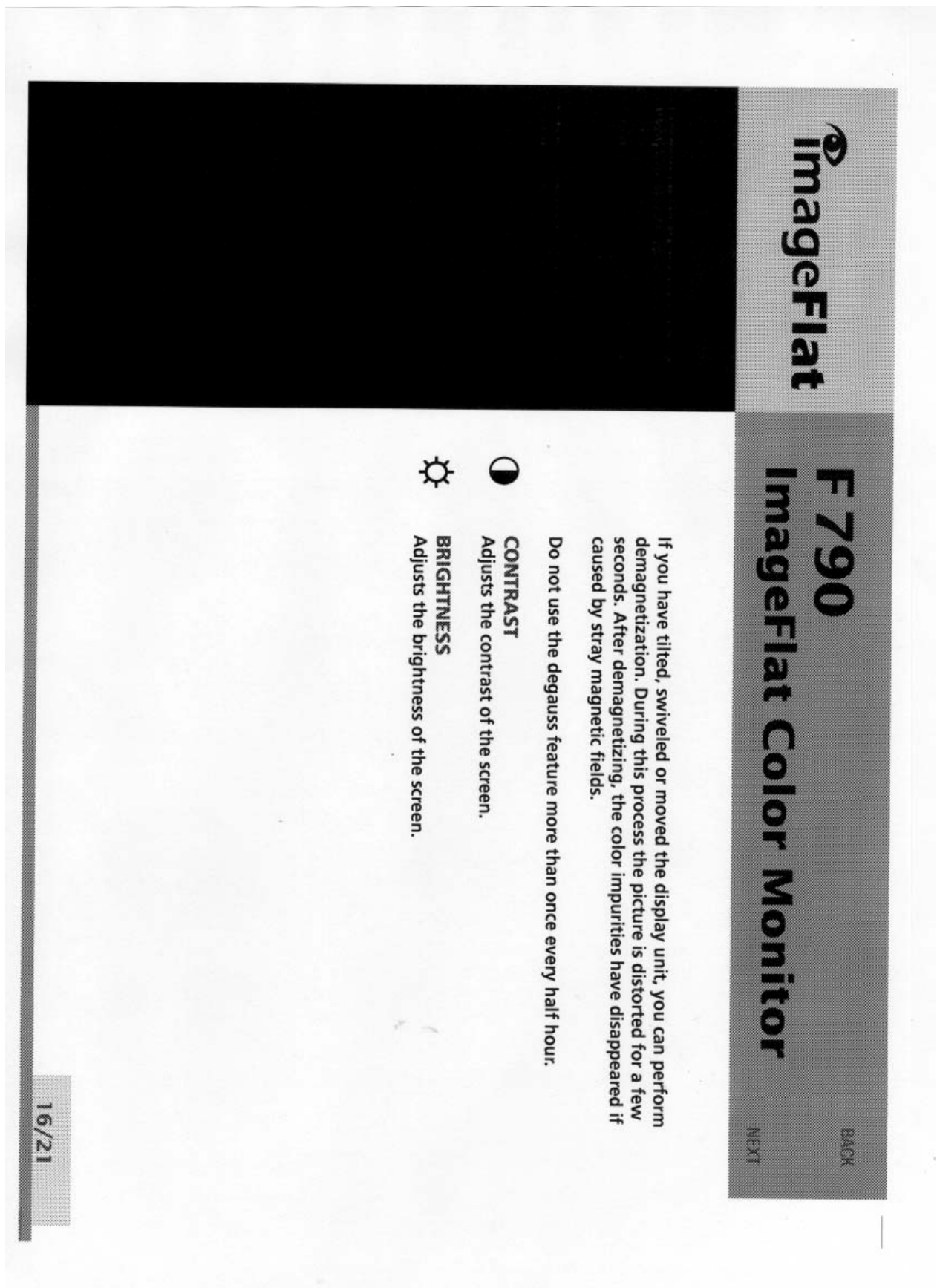
INFORMATION

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

I 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.

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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 power switch 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. The graphics adapter is set for too high refresh rate or line frequency. Select another display mode with lower frequencies in computer.
Error message: OUT OF RANGE	
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>Presets 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. 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.
Size, position, shape or quality unsatisfactory	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
Windows Plug and Play does not recognize the monitor

Possible solution
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.

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	17" diagonal Flat(15.7" viewable) 0.24mm Stripe pitch CDT Anti-Static, Multiple layer Coating, Medium-short, factory preset area : 300X225 mm
Display area	Infinite
Number of color	R.G.B Analog, 15 pin D-sub / BNC
Input signals	Horizontal : 30 to 95 KHz, Vertical : 50 to 150Hz
Frequency rate	202 MHz
Maximum bandwidth	1600X1200@75Hz
Maximum resolution	100-240 VAC, 1.5 A
Input voltage	91W
Power consumption	VESA DPMS
Power Management	Lower than EPA recommendation
Plug & Play	VESA DDC 1/2B
OSD menu	H/V, SIZE, H/V, POSITION, PINCUSHION, PIN BALANCE, TRAPEZOID, PARALLEL, ROTATION, TOP/BOTTOM CORNER, TOP/BOTTOM CORNER BALANCE, BNC/D-SUB, H/V, CONVERGENCE, PURITY, LANGUAGES, H/V, MOIRE, OSD H/V, POSITION, OSD TIME, COLOR CONTROL, RECALL, INFORMATION, DEGAUSS, , CONTRAST, BRIGHTNESS
Ergonomics, Safety and EMC	TCO FCC Class B, CE, VCCI UL, CSA, TÜV-GS, ISO-9241-3/7/8, DHHS, NEMKO, DEMKO, FIMKO, SEMKO
Operating Temperature	0 ~ 40°C
Weight	18.0 Kg unpacked, 21.0 Kg packed
Dimensions (W X H X D mm)	415 X 437.5 X 428 mm

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