4 Adjusting The Monitor
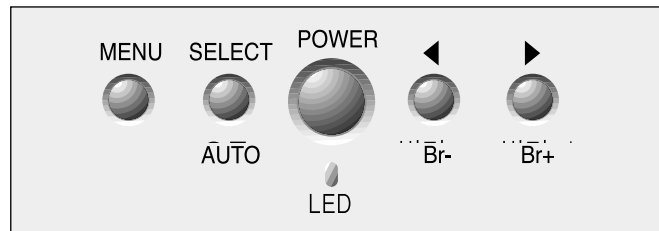
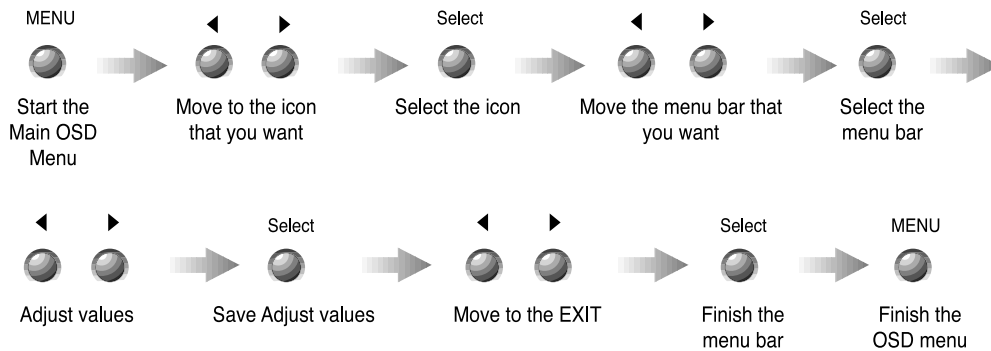## The Function Control Buttons

The function control buttons for monitor are located on the bottom side of the LCD monitor.

MENU   SELECT   POWER   ◀   ▶

AUTO   Br-   Br+

LED

How to use the function control button.

MENU

Start the
Main OSD
Menu

◀   ▶

Move to the icon
that you want

Select

Select the icon

◀   ▶

Move the menu bar that
you want

Select

Select the
menu bar

◀   ▶

Adjust values

Select

Save Adjust values

◀   ▶

Move to the EXIT

Select

Finish the
menu bar

MENU

Finish the
OSD menu

HLM151X ®

How to use the Hot Key.

Select

AUTO

Auto

: When you push Auto button, this will optimize image quality automatically.

◀   ▶

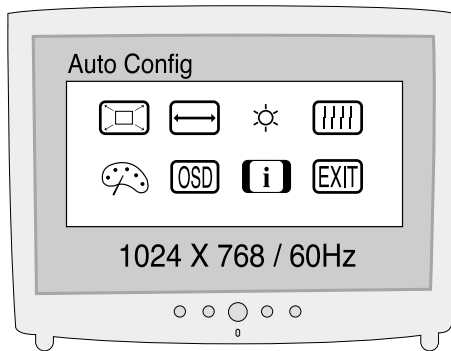: You can adjust the contrast values that you want by this hot key.

Br-   Br+

Notice | While menu displays on the screen, don't use hot key.
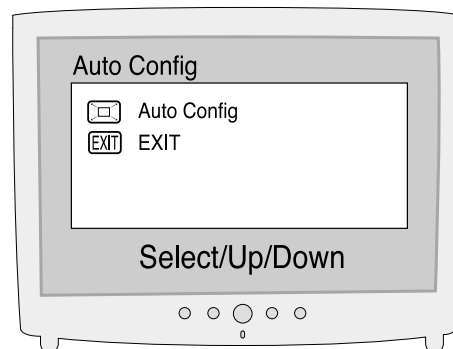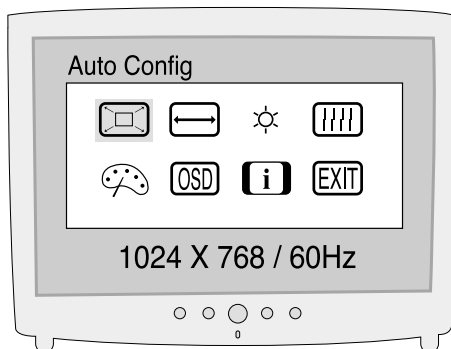If you want to use hot key, you must finish the menu status.

Main OSD Menu

When you push the menu button, you can see below main OSD menu.

Auto Config

1024 X 768 / 60Hz

AUTO CONFIG

Auto Configure

■ You can use this menu to optimize image quality.

Auto Config

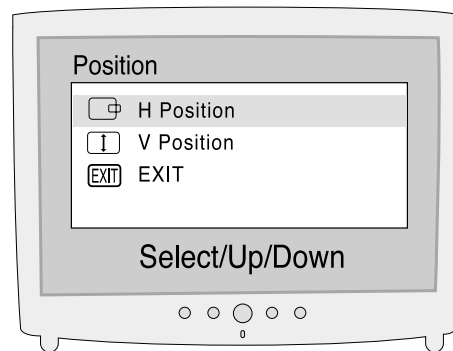1024 X 768 / 60Hz

Auto Config

Auto Config
EXIT

Select/Up/Down
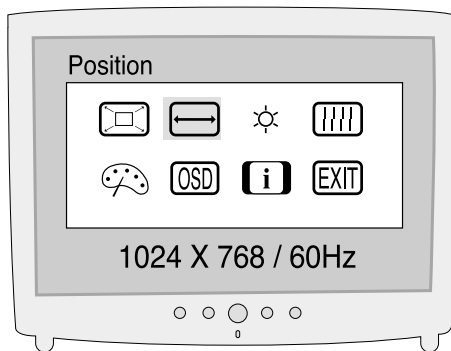
POSITION

Adjust Position

■ Changes the location of the image.
■ H-Position : Move to the Left/Right
■ V-Position : Move to the Bottom/Top

Position

1024 X 768 / 60Hz

Position

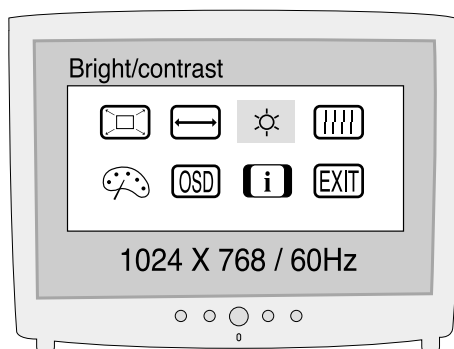H Position
V Position
EXIT

Select/Up/Down

BRIGHTNESS/CONTRAST
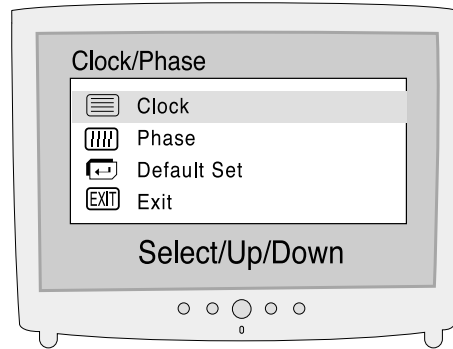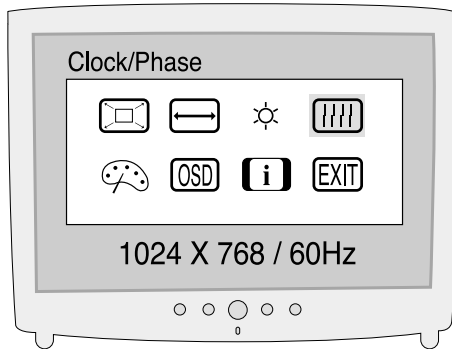
Brightness / Contrast

- Brightness : Change the overall light intensity of the images displayed.
- Contrast : Change the ratio of light intensity between the brightest white and the darkest black.
- Adjust contrast values that you want.
- Default set : Discard current setting and replaces corresponding parameters with the factory default values about brightness/contrast.

Bright/contrast

1024 X 768 / 60Hz

Bright/contrast

☼ Brightness
◑ Contrast
↵ Default Set
EXIT EXIT

Select/Up/Down
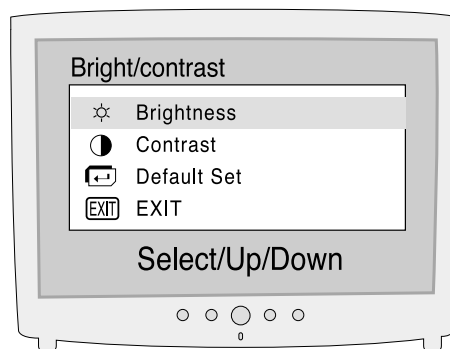
CLOCK/PHASE

Clock/Phase

- When image is not clear, use clock/phase menu.
- PHASE/ CLOCK : Although 'Auto Adjustment' automatically finds the optimum values of Clock and Phase parameters as well as image position, it may be necessary for you to adjust those parameters manually. It is recommended for you to use 'Auto Adjustment' first. If the adjustment results are not satisfying, then use Clock and Phase adjustment features to get the best adjustment results. Bear in mind that Clock and Phase adjustment may change the width of the image and affect image position as well. If the image is clear while out of center by a couple of pixels, use image position to center the image.
- Default set : Discards current setting and replaces corresponding parameters with the factory default values about Clock/Phase.

Clock/Phase

🔲 ⬌ ☀ ||||

🎨 (OSD) [i] (EXIT)

1024 X 768 / 60Hz

Clock/Phase

≡ Clock
|||| Phase
↵ Default Set
(EXIT) Exit

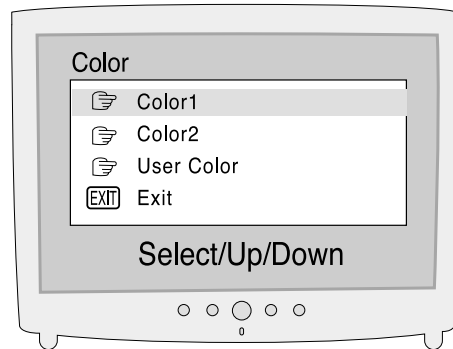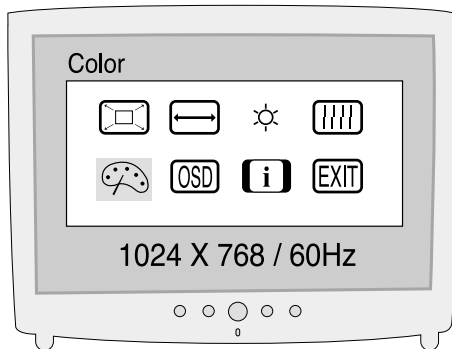**Select/Up/Down**

Notice If image is not clear (noise), you can adjust Clock/Phase.

COLOR

Color

■ The tone of color can be changed from bluish white to reddish white.
■ Color1 - Blue type
■ Color2 - Red type
■ User Color - You can select the color.

Color

🔲 ⬌ ☀ ||||

🎨 (OSD) [i] (EXIT)

1024 X 768 / 60Hz

Color

☞ Color1
☞ Color2
☞ User Color
(EXIT) Exit

Select/Up/Down

USER COLOR

User Color

■ Red Gain / Green Gain / Blue Gain : You can adjust red, green and blue values that you want
■ Default set : Discards current setting and replaces corresponding parameters with the factory
   default values about user color

Color

Ⓡ   Red Gain
Ⓖ   Green Gain
Ⓑ   Blue Gain
↵   Default set
EXIT   Exit

Select/Up/Down
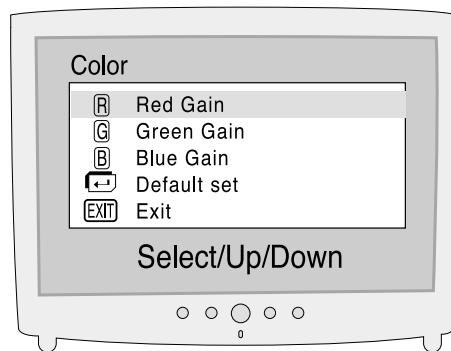
OSD POSITION

OSD Position

■ Sets the OSD menu display position.
■ H-Position : Moves the OSD menu to the horizontal direction.
■ V-Position : Moves the OSD menu to the vertical direction.
■ Display Func : Normal, Fade In, Blending In
■ Default set : Discards current setting and replaces corresponding parameters with the factory
   default values about OSD Position.

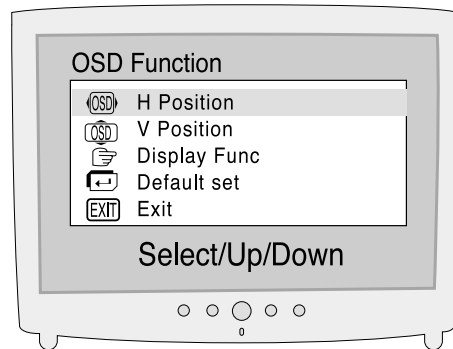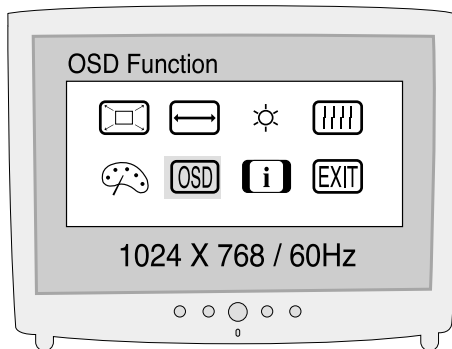OSD Function

🔲 ⬌ ☼ |||||
🎨 OSD i EXIT

1024 X 768 / 60Hz

OSD Function

OSD H Position
OSD V Position
☞ Display Func
↵ Default set
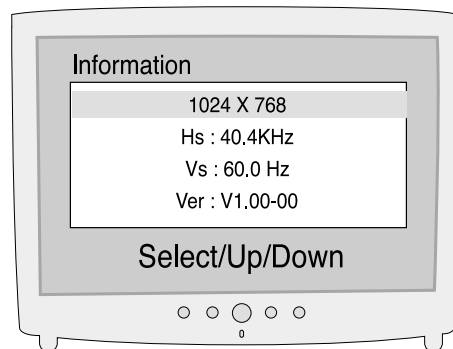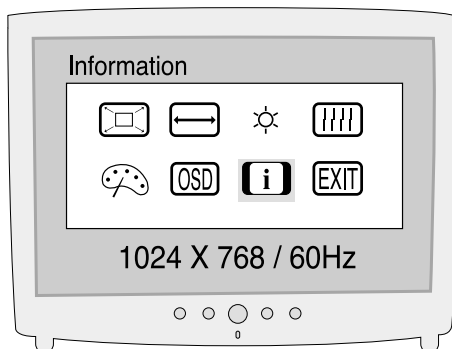EXIT Exit

Select/Up/Down

INFORMATION

INFORMATION

- Shows the information of the current video signal.
- 1024 X 768 : Current Resolution.
- HS : Horizontal Sync by the graphic card.
- VS : Vertical Sync by the graphic card.

Information

🔲 ⬌ ☼ |||||
🎨 OSD i EXIT

1024 X 768 / 60Hz

Information

1024 X 768
Hs : 40.4KHz
Vs : 60.0 Hz
Ver : V1.00-00

Select/Up/Down

5 Appendix

Appendix A. Specifications

Panel	Type	TFT active matrix
	Size	15.1" Diagonal (38cm) 307.2 X 230.4 mm
	Brightness	200cd/㎡
	Viewing Angle [L/R/U/D]	L/R : 75°/75° U/D : 55°/55°
	Pixel Pitch	0.3 mm X 0.3 mm
	Display Color	6-bit (262,144 colors)
	Response Time	Tr : 20ms, Tf : 30ms
Display Resolution	Basic	1024 X 768 @60Hz
	Maximum	1024 X 768 @75Hz
Frequency	Horizontal	31~60KHz
	Vertical	55~75Hz
Sync Signal		TTL, P. or N.
Input	Video signal	Analog RGB (0.7Vp-p, 75Ω)
	Connector	15-pin D-Sub connector
Tilting Degree (U/D)		+10/+30 Degree
Plug & Play		VESA DDC1/2B/2Bi
Power	Input	Internal type : 90~265 VAC
	Consumption	Under 25W
	Standby mode	3W less
Power Management		VESA DPMS
Environmental Considerations	Temperature	0 ~ 40°C (32°F ~ 104°F)
	Humidity	90% less
Dimensions	Outside	390mm(W) X 386mm(D) X 172mm(H)
Weight	Monitor	4.2kg
	Carton	2.4kg

※The specification of this monitor is subject to be changed without notice to improve perfor-mance.

Appendix B. Display Modes

Mode	Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H/V)
VGA	720 X 400	31.468	70.087	28.322	-/+
	640 X 480	31.468	59.940	25.175	-/-
		35.000	66.670	30.240	-/-
		37.500	75.000	31.500	-/-
SVGA	800 X 600	37.879	60.300	40.000	+/+
		48.077	72.188	50.000	+/+
		46.875	75.000	49.500	+/+
XGA	1024 X 768	48.363	60.004	65.000	-/-
		56.476	70.000	75.000	-/-
		60.023	75.029	78.750	+/+

Appendix C. 15-pin D-Sub Connector

* Input signal : Analog RGB
* 15-pin D-Sub connector

Pin No.	Signal Name	Pin No.	Signal Name	Pin No.	Signal Name
1	Analog Red Input	6	Analog Red Ground	11	Ground
2	Analog Green Input	7	Analog Green Ground	12	DDC Data
3	Analog Blue Input	8	Analog Blue Ground	13	Horizontal Sync
4	Ground	9	No Connect	14	Vertical Sync
5	DDC Ground	10	Sync Ground	15	DDC Clock
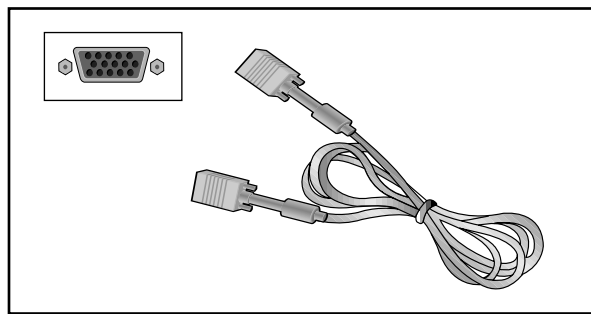
D-Sub

Appendix D. DPMS Power Saving Mode

 This monitor has a built-in power management system called DPMS Power Saving Mode. This system saves energy by switching your monitor into a low-power mode when it has not been used for a certain period of time. The available modes are "ON", "Standby", "Suspend", and "OFF".

State	Signal			Power Consumption	Recovery Time	LED Color and Operating status
	H-sync	V-sync	RGB			
ON	Active	Active	Active	Under 40Watt	-	Green
Standby mode	Inactive	Active	Blanked	Less than 5Watt	Within 2 Sec	Alternating Green/Orange (0.5 Sec interval)
Suspend mode	Active	Inactive	Blanked			Alternating Green/Orange (1 Sec interval)
OFF	Inactive	Inactive	Blanked			Orange

6 Troubleshooting

What you see...	Suggested Actions
Screen is blank and power indicator is off	• Ensure that the power cord is firmly connected and the LCD monitor is on.
"out of range" message	• Check the maximum resolution and the frequency of the video adaptor. • Compare these values with the data in the Display Modes Timing Chart.
"No signal input" message	• Ensure that the signal cable is firmly connected to the PC or video sources. • Ensure that the PC or video sources are turned on.
Image is not stable and may appear to vibrate	• Check that the display resolution and frequency from your PC or video board is an available mode for your monitor. On your computer check : Control Panel, Display, Settings • Note : Your monitor supports multiscan display functions within the following frequency domain: 　　· Horizontal frequency : 31~60KHz 　　· Vertical frequency : 55~75Hz 　　· Maximum refresh rate : 1024 X 768 @75Hz
The image is too light or too dark	• Adjust the Brightness and Contrast. • Refer to the Brightness/Contrast
The image color is not good	• Adjust the Color • Refer to the Color
Image is not centered on the screen	• Executes Auto Configuration.
Screen is blank and power indicator light is steady amber or blinks every 0.5 or 1 seconds	• The monitor is using its power management system. • Move the computer's mouse or press a key on the keyboard.