USER'S GUIDE

COLOR MONITOR

Model No :L710/L710M

LuComs
DAEWOO

FEDERAL COMMUNICATIONS COMMISSION
RADIO FREQUENCY INTERFERENCE STATEMENT

NOTE : This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures :

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio or TV technician for help.

CAUTION : Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

CANADIAN NOTICE

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

AVIS CANADIEN

Cet appareil numérique de la Class B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

As an **E**NERGY **S**TAR® Partner, Daewoo Lucoms Co., Ltd. has determined that this product meets the Energy Star® guidelines for energy efficiency.

CONTENTS

INTRODUCTION

This manual explains how to correctly install, operate and get the best performance from your monitor. Please read this user's guide carefully before installing your monitor, then keep it near your monitor for quick reference.

First, please check that the contents of the box corresponds with the following checklist :

- TFT LCD monitor
- Power cord
- 15 pin signal cable
- User's guide
- Audio cable(L710M only)
- Warranty card (Optional)

If any item is missing or damaged, please contact your dealer. Please keep the box and packing materials so that you may properly store or transport your monitor.
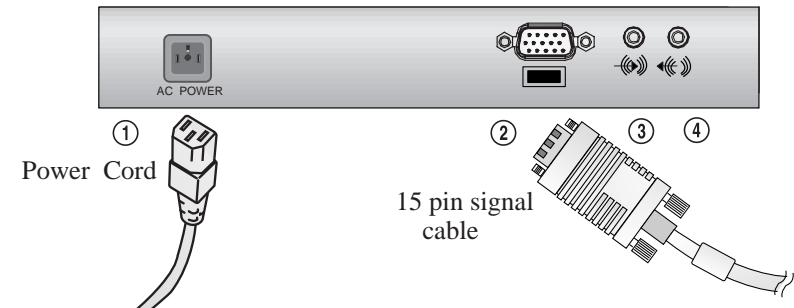
- The monitor is designed for use in a small work area or for those who need more work space on the desk.

- The convenient and user-friendly on-screen display allows for easy and accurate adjustments of screen size, position and screen color.

- The monitor supports a safe working environment in strict compliance with the TCO 99 standard for low emissions .

- The monitor complies with the VESA Display Data Channel (DDC) specification for Plug and Play compatibility. Advanced microcircuitry makes setup and configuration fast and effortless.

- The monitor features Advanced Color Controls for fine-tuning to meet your own personal tastes or application requirements. Use the on-screen controls to adjust the color temperature, RGB gain value for the best possible screen color and intensity.

- Press the menu button and activate the Self-Diagnosis menu to determine whether your monitor is functioning normally, not receiving a signal or is receiving a signal that is out of scanning range.

- Activate the higher refresh rates of the monitor to stabilize the screen and eliminate the annoying flicker that contributes to eye-strain and headaches.

- The monitor supports the optimal display performance with 1280x1024 at 75Hz.

- With the POWER LIGHT function added,you can enjoy the bright screen for movie or any other multimedia utilization.

- This product has the stereo speaker(L710M only).

SETUP

① Plug the power cord into the AC receptacle located on the back of the monitor.

② Connect the 15 pin signal cable to the output port of the video card in your computer and monitor.

③ Connect the Audio cable to the sound card of computer(L710M only).

④ Headphone jack(L710M only).

AC POWER

① Power Cord

② ③ ④

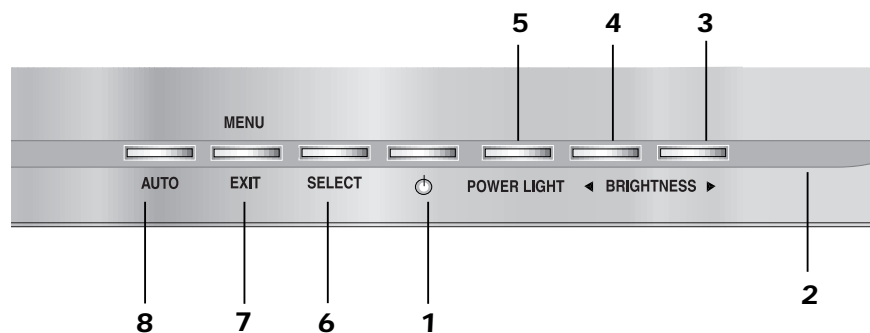15 pin signal cable

OPERATION & ADJUSTMENT

< L710 >

1 POWER

Swithes the monitor on and off.

2 POWER Indicator

Shows both normal operation and power management status with power indicator light.

5   4   3

MENU

AUTO   EXIT   SELECT   ⏻   POWER LIGHT ◄ BRIGHTNESS ►

8   7   6   1   **2**

3 ► (∗)

Moves cursor to the right or low window in the OSD window and increases the value of any selected function.

4 ◄ (∗)

Moves cursor to the left or high window in the OSD window and decreases value of any selected function.

5 POWER LIGHT

While the OSD screen is off, you can adjust the screen brightness according to each situation.

6 SELECT

Moves from top menu to sub menu in the OSD window and opens the function window for the selected icon.

7 MENU/EXIT

Turns the OSD window on.

Turns the OSD (On-Screen Display) window off and moves from sub menu to top menu in the OSD window.

8 AUTO (∗)

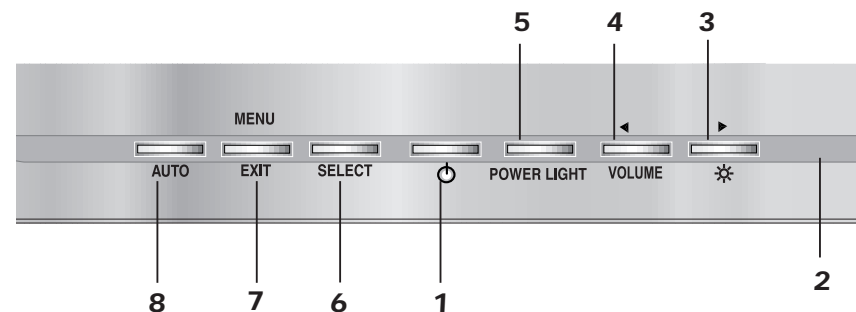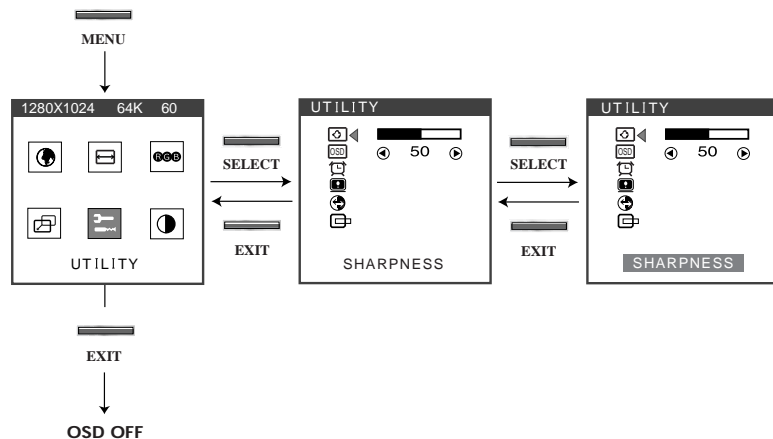Launches the AUTO TRACKING function directly.

(∗) : Hot Key

< L710M >

1 POWER

Swithes the monitor on and off.

2 POWER Indicator

Shows both normal operation and power management status with power indicator light.

5   4   3

MENU

AUTO   EXIT   SELECT   ⏻   POWER LIGHT   VOLUME   ☼

8   7   6   1   **2**

3 ►/☼ (∗)

Moves cursor to the right or low window in the OSD window and increases the value of any selected function.

While the OSD screen is off, you can adjust the brightness directly.

4 ◄/VOLUME(∗)

Moves cursor to the left or high window in the OSD window and decreases value of any selected function.

While the OSD screen is off, you can adjust the volume directly.

5 POWER LIGHT

While the OSD screen is off, you can adjust the screen brightness according to each situation.

6 SELECT

Moves from top menu to sub menu in the OSD window and opens the function window for the selected icon.

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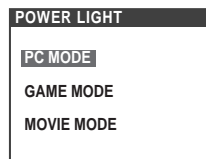**MENU**

1280X1024   64K   60

UTILITY

SELECT

UTILITY   50

SELECT

UTILITY   50

EXIT

SHARPNESS

EXIT

SHARPNESS

UTILITY

EXIT

OSD OFF

HOT KEY

AUTO

AUTO TRACKING
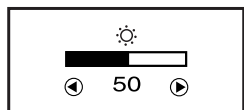
POWER LIGHT

POWER LIGHT

PC MODE

GAME MODE

MOVIE MODE

◻ When there is no OSD, if you press this AUTO button, you can use the best display performance fit for a current mode.

BRIGHTNESS / ☼

☼
◀   50   ▶

◻ When there is no OSD, if you press this BRIGHTNESS button, you can adjust the brightness directly.

◀ : decreases brightness

▶ : increases brightness

◻ The screen will be brightened progressively by 10%. If you carry out general PC works such as document edition on the Movie mode,you may shorten the life span of LCD panel. Thus,it is recommended to verify the selected mode before use.
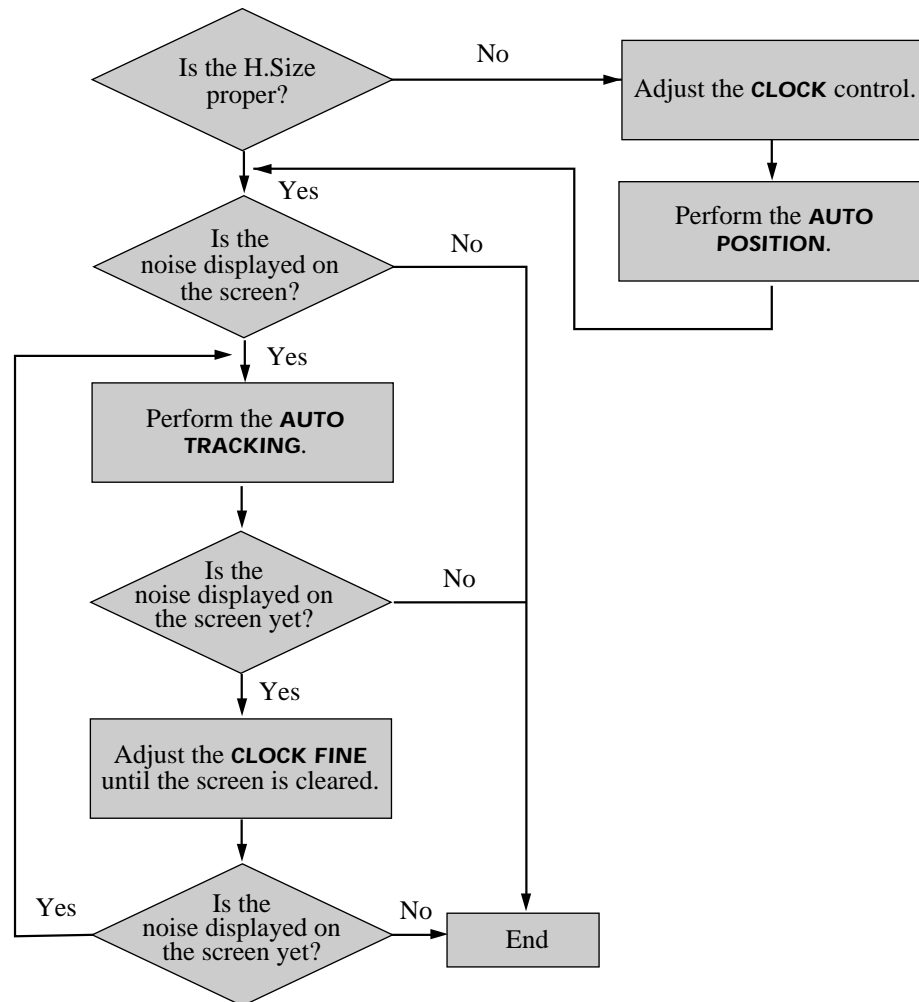
ADJUSTMENT PROCEDURE

Is the H.Size proper?

No → Adjust the **CLOCK** control.

Yes

Is the noise displayed on the screen?

No

Yes

Perform the **AUTO POSITION**.

Perform the **AUTO TRACKING**.

Is the noise displayed on the screen yet?

No

Yes

Adjust the **CLOCK FINE** until the screen is cleared.

Is the noise displayed on the screen yet?

Yes   No → End

ICON	CONTROL	FUNCTION
	LANGUAGE	Select language for OSD (6 languages).
	CLOCK	Adjust the width (horizontal size) of the screen image.
	CLOCK FINE	Sharpen the focus by aligning the illuminated pixels and adjust until the screen image looks focused, crisp and sharp. Adjusting the **CLOCK FINE** after the **CLOCK** adjustment will produce a clear screen.
AUTO	AUTO TRACKING	Adjust the horizontal & vertical picture image quality and size.
	COLOR TEMPERATURE	Choose different preset color temperatures or set your own customized color parameters.
Ⓡ	RED CONTROL	Adjust the red color.
Ⓖ	GREEN CONTROL	Adjust the green color.
Ⓑ	BLUE CONTROL	Adjust the blue color.
	H. CENTER & V. CENTER	Adjust the position of the display horizontally (left or right) and vertically (up or down).
	SHARPNESS	Adjust the display image quality (if the screen proceed to scaling up).
OSD	OSD POSITION	Adjust the OSD position horizontally (left or right) and vertically (up or down).

ICON	CONTROL	FUNCTION
	OSD TIME OUT	Adjust the display OSD Menu.
	STATUS	Display horizontal & vertical frequency and polarity.
	RECALL	Reset the screen to the Factory Preset Display Settings.
	AUTO POSITION	Choose automatically the proper horizontal position and vertical position & size of the screen image.
	CONTRAST	Adjust the contrast of image, the difference between light and dark areas on the screen.

SELF DIAGNOSIS

If there is no image, the Self Diagnosis screen will be displayed. Self Diagnosis function checks if the status of the monitor screen is No Signal, Out of range or None support .

NO SIGNAL

No Signal screen is displayed when the D-Sub signal connector is connected but the status of the monitor is on DPMS mode.
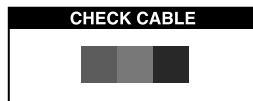
OUT OF RANGE

Out of Range screen is displayed when the applied frequency is under or over normal range.

◻ Normal range
   (Non-interlaced mode only)
  H : 30 - 80 KHz
  V : 56 - 77 Hz

NONE SUPPORT

None support screen is displayed when the applied frequency is under or over factory preset timings.

CHECK CABLE

Check cable screen is displayed when the signal cable is disconnected.

SPECIFICATIONS

Panel	Size	17-inch (43.2 cm) diagonal
	Pixel Pitch	0.264 x 0.264 mm
	Viewing Angle	60°(Right/Left)
		45°(up), 45°(down)
	Contrast Ratio	400:1 contrast ratio (typ)
	Brightness	$250cd/m^2$ brightness (typ)
	Color Filter	RGB vertical stripe
Synchronization	Horizontal	30 - 80 KHz
	Vertical	56 - 77 Hz
Video Bandwidth		135 MHz
Max Resolution		1280 x 1024 @75Hz
Colors		16M Colors
Display Area		337.9mm x 270.3mm
PC Input Signal	Sync	H/V separate (TTL)
	Video	15 pin mini D-sub(Analog RGB)
Speaker	Max. Output	2W(Left 1W+Right 1W)
Plug and Play		VESA DDC Compatible
Power Source		100-240 Vac, 50/60 Hz (Free Voltage)
Power Consumption		35 W
Dimension-W x H x D		386 x 398 x 190 mm (with stand)
		386 x 346 x 60 mm (without stand)
Weight-net/gross		6.2/7.6 Kg(13.6/16.7 lbs)
Power Saving		EPA, VESA DPMS, Nutek Compliant
Tilt Range		5° forward, 30° backward
Operating Temperature		10 ~ 40°C /50 ~ 104°F

◻ The specification can be changed without any prior notice to improve the quality of the product.

◻ The LCD panel may have some defective pixels (e.g. slightly light or dark) due to a characteristic of the LCD panel. But there is no defect in your LCD product itself.
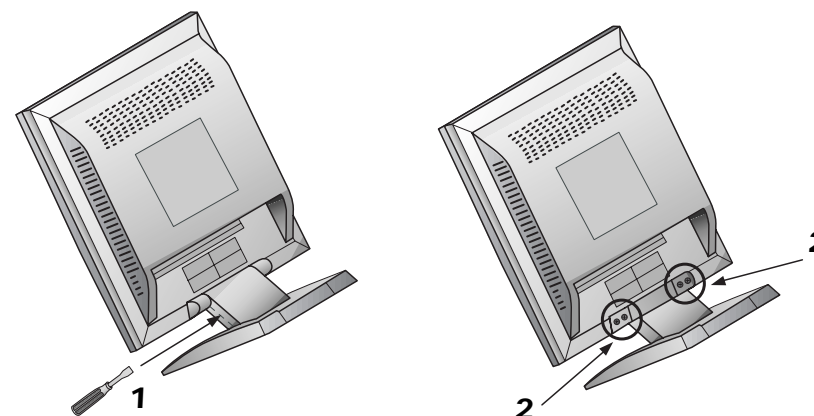
FACTORY PRESET TIMINGS

VESA MODES				
Mode	Resolution (dots ✕ lines)	H.Freq (KHz)	V.Freq (Hz)	Remark
VGA	640 ✕ 480 @ 60Hz	31.5	60	Non-interlaced
VGA	640 ✕ 480 @ 72Hz	37.9	72	Non-interlaced
VGA	640 ✕ 480 @ 75Hz	37.5	75	Non-interlaced
SVGA	800 ✕ 600 @ 56Hz	35.2	56	Non-interlaced
SVGA	800 ✕ 600 @ 60Hz	37.9	60	Non-interlaced
SVGA	800 ✕ 600 @ 72Hz	48.1	72	Non-interlaced
SVGA	800 ✕ 600 @ 75Hz	46.9	75	Non-interlaced
XGA	1024 ✕ 768 @ 60Hz	48.4	60	Non-interlaced
XGA	1024 ✕ 768 @ 70Hz	56.5	70	Non-interlaced
XGA	1024 ✕ 768 @ 75Hz	60.0	75	Non-interlaced
SXGA	1280 ✕ 1024 @ 60Hz	64.0	60	Non-interlaced
SXGA	1280 ✕ 1024 @ 75Hz	80.0	75	Non-interlaced
SXGA	1152 ✕ 864 @ 75Hz	67.5	75	Non-interlaced
SXGA	1280 ✕ 960 @ 60Hz	60.0	60	Non-interlaced
IBM MODES				
Mode	Resolution (dots ✕ lines)	H.Freq (KHz)	V.Freq (Hz)	Remark
EGA	640 ✕ 350 @ 70Hz	31.5	70	Non-interlaced
DOS	720 ✕ 400 @ 70Hz	31.3	70	Non-interlaced
MAC MODES				
Mode	Resolution (dots ✕ lines)	H.Freq (KHz)	V.Freq (Hz)	Remark
VGA	640 ✕ 480 @ 67Hz	35.0	67	Non-interlaced
SVGA	832 ✕ 624 @ 75Hz	49.7	75	Non-interlaced
SXGA	1152 ✕ 870 @ 75Hz	68.7	75	Non-interlaced
THE OTHERS				
Mode	Resolution (dots ✕ lines)	H.Freq (KHz)	V.Freq (Hz)	Remark
SXGA	1280 ✕ 1024 @ 70Hz	74.4	70	Non-interlaced

◾ The LCD Monitor has only Non-interlanced modes without flicker.
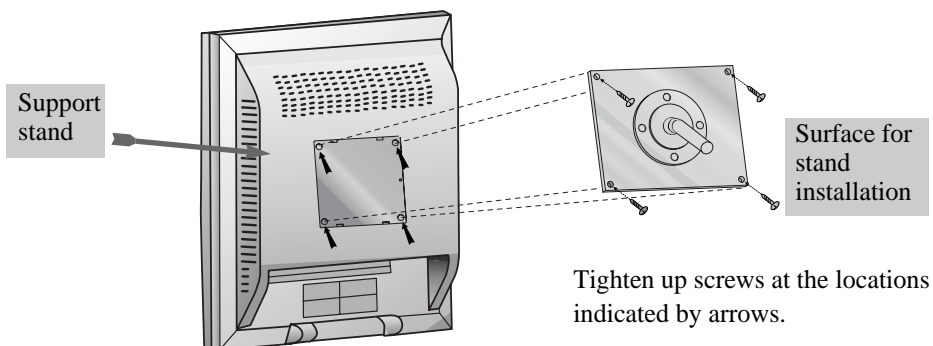
CHANGING THE STAND

Removing Original Stand

◾ Turn off the monitor and pull out the power cable.

◾ Place a cushion or a soft cloth on the floor and put the product on it with the front of the monitor facing the floor.

1. Detach the rear cover of the stand with a screwdriver.
2. Remove the four screws connecting the stand and the body and the stand is disassembled.

Attaching the monitor with the arm-stand(option)

Support stand

Surface for stand installation

Tighten up screws at the locations indicated by arrows.

- This monitor's installation surface is compatible with various kinds of VESA standard stands.

- Hole spacing : 100x100 mm
- Screw Length : 8~12 mm

TROBLESHOOTING

Symptom	Check
Picture is jitterd.	Adjust Clock to set the screen position and adjust Clock fine until a noise isn't displayed.
No picture.	Check if power switch and computer power switch are in the on position. ↓ Check if the signal cable is correctly connected to the video card. ↓ Check if the pins of D subconnector are not bent. ↓ Check if the computer is in the power- saving mode.
POWER LED is not lit.	Check if power switch is in the on position. ↓ Check if the power cord is correctly connected.
Image is unstable.	Check if the signal cable is suitable to the video card.
Image is not centered, too small or too large.	Adjust Clock or H&V Center to get the proper image.
Picture bounces or a wave pattern is present in the picture.	Keep the devices that may cause electrical interference away from the monitor.
Picture is blurred.	Adjust Contrast and Brightness.

Symptom	Check
No sound.	Check the audio cable are correctly connected to the computer. ↓ Adjust the volume after checking the sound is muted. ↓ Check the audio system in the computer.
Low sound.	Adjust the volume on the OSD Menu. ↓ Adjust the volume of the sound card in the computer.