



DAEWOO INTERNATIONAL Corp.

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P/N: 97E9500149





High Resolution
TFT LCD Monitor



FCC STATEMENT

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, with can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- Only shielded interface cable should be used.

 Finally, any changes or modifications to the equipment by the user not expressly approved by the grantee or manufacturer could void the users authority to operate such equipment.

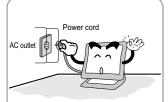
Contents

1. Precautions	2
2. Items	4
3. Setting up the LCD monitor	5
How to connect the power cord and the several cables to the LCD monitor. $\ \cdot \ \cdot$	5
Plug & Play	5
Warm-up Time	5
4. Adjusting The Monitor	6
The Function Control Buttons	6
How to use the Function Key.	6
Main OSD Menu	-
BRIGHTNESS/CONTRAST · · · · · · · · · · · · · · · · · · ·	
COLOR	-
POSITION &CLOCK/PHASE · · · · · · · · · · · · · · · · · · ·	
OSD FUNCTION ADJUSTMENT	
SETUP MENU · · · · · · · · · · · · · · · · · · ·	
5. Appendix	8
Display Modes	
15-pin D-Sub Connector	
DPMS Power Saving Mode	9
6. Troubleshooting	10

Precautions

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Warning: The following information will help you avoid the risk of electric shock, serious injury, and death.



Plug the power cord into a properly grounded outlet. There is the risk of electric shock.



If you hear a noise or smell smoke from the computer or adaptor, unplug the power cord immediately, and call the service center. There is the risk of electric shock or fire.



Do not overload an electrical outlet with too many devices. There is the risk of fire.



Do not unplug from the outlet by pulling the power cord or when your hands are wet. There is the risk of electric shock and fire.



Do not bend the power cord excessively or place heavy objects on it. Keep children and pets away from the power cord as they may damage the power cord. There is the risk of electric shock and fire.



Do not use a damaged power cord or plug. Make sure the plug fits snugly into the outlet. There is the risk of electric shock or fire.



Do not expose the monitor to the direct sun light.



Keep the monitor away from high temperature, humidity, and dust.

- ■Operating environment =0~25degrees Celsius
- ■Operating environment =30~80 relative humidity.



Do not block the fan louvers. There is the risk of fire or damage to the monitor.



Do not allow any object or liquid to enter inside the monitor. There is the risk of electric shock, fire, or damage to the monitor.



Do not attempt to disassemble, fix, or modify the monitor.

There is the risk of electric shock or fire.



Caution

The following information will help you avoid the risk of minor or moderate injury, or damage to the monitor.



Use a proper voltage/current level indicated



Do not clean the LCD with abrasive chemicals.

There is the risk of damage to the LCD.



Do not scratch and damage the LCD with sharp objects.



Keep the monitor away from objects and electrical appliances that may generate electromagnetic fields.



Place the monitor on a flat, stable surface. The monitor may fall and there is the risk of damage or injury

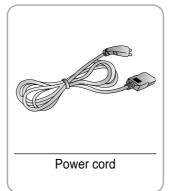


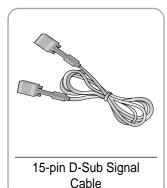
Unplug the power cord when the monitor is not in use for a prolonged period of time.

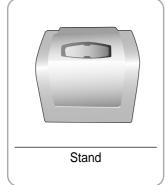
Items













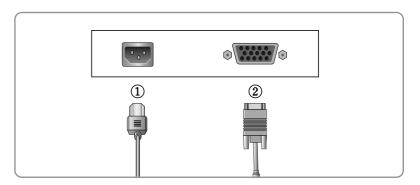


Please make sure the following items are included with your monitor. If any items are missing, contact your dealer.

3

Setting up the LCD monitor

How to connect the power cord and the several cables to the LCD monitor.



No.	Name	Cable connections	
1	Power	Power Cord	
2	PC	15-pin D-Sub Signal Cable	

Plug & Play

The adoption of the new VESA Plug and Play solution eliminates complicated and time consuming setup. It allows you to install your monitor in a Plug and Play compatible system without the usual hassles and confusion. Your PC system can easily identify and configure itself for use with your display. This monitor automatically tells the PC system its Extended Display Identification Data (EDID) using Display Data Channel (DDC) protocols so the PC system can automatically configure itself to use the flat panel display.

Warm-up Time

All LCD monitors need time to become thermally stable whenever you turn on the monitor after letting the monitor be turned off for a couple of hours. Therefore, to achieve more accurate adjustments for parameters, allow the LCD monitor to be warmed up for at least 30 minutes before making any screen adjustments.

4

Adjusting The Monitor

The Function Control Buttons





How to use the Function Key.





- 1. First click: The OSD main menu appears.
- 2. Second click: The OSD menu disappears.





- 1. Select a command function.
- 2. When you push Auto button, this will optimize image quality automatically.



Down: 1. Automatic adjust color(white level) for various input source's white level

- 2. Move the on-screen highlighted command item to the next one.
- 3. Decrease the current option value.



- UP: 1. Move the on-screen highlighted command item to the Previous one.
 - 2. Increase the current option value.





Power On/Off toggle button.

Main OSD Menu

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

MAIN MENU

> BRIGHT CONTRAST









BRIGHTNESS/CONTRAST

- Brightness: Changes the overall light intensity of the images being displayed.
- Contrast: Changes the ratio of light intensity between the brightest white and darkest black.
- Gamma : Change the gamma value.



Adjusting Gamma Value is useful in case of game or movie screen.

COLOR

- The tone of color can be changed form bluish white to reddish white.
- Color1 Blue type
- Color2 Red type
- RED, GREEN, BLUE You can adjust red, green and blue values that you want.

POSITION & CLOCK/PHASE

CLOCK/PHASE

- When image is not clear, you can use clock/phase menu.
- CLOCK/PHASE: 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 satisfactory, 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.

POSITION

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



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

OSD FUNCTION ADJUSTMENT

- Sets the OSD menu display position.
- OSD Position : Moves the OSD menu to the horizontal or vertical direction.
- OSD TIME: Shows the OSD TIME displays from 5 to 60sec.
- LANGUAGE : Select language in OSD menu.

SETUP MENU

- White balance: Automatic djust color (white level) for various input source's white level.
- Information : display monitor's information.
- Recall: Discards current setting and replaced all paramotors with the factory default values.

1280 × 1024 63.9KHz / 60.0Hz

5

Appendix

Display Modes

Mode	Resolution	Horizontal Frequency(KHz)	Vertical Frequency(Hz)	Pixel Clock Frequency(MHz)	Sync Polarity(H/V)
	720 X 400		70.087	28.322	-/+
VGA	640 X 480	31.468	59.940	25.175	-/-
VGA		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	+/+
SXGA	1280 X 1024	63.981	60.020	108.000	+,-/+,-
		79.976	75.025	135.000	+/+

^{*} The optimal resolution is $1024 \times 768@60(HL510S) / 1280 \times 1024@60(HL710S/HL711S)$.

15-pin D-Sub Connector

Input signal : Analog RGB15-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

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	Recovery	LED Color and
State	H-sync	V-sync	RGB	Consumption	Time	Operting status
ON	Active	Active	Active	Under 40Watt	-	Green
Stanby mode	Inactive	Active	Blanked			Amber
Suspend mode	Active	Inactive	Blanked	Less than 1Watt	Within 2Sec	Amber
OFF	Inactive	Inactive	Blanked	IVVall		Amber

6

Troubleshooting

What you see	Suggested Actions
Screen is blank and power indictor 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:
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.

10

Appendix A. Specifications

MODEL		HL510S HL710S / HL711S			
	Туре	TFT active matrix			
Panel	Size	15 inch	17 inch		
	Size	304.1×228.1(mm)	337.92×270.336(mm)		
	Pixel Pitch	0.297×0.297(mm)	0.264 × 0.264(mm)		
	Display Color	8-bit (16,777,216 colors)			
Display	Basic	1024×768@60Hz	1280×1024@60Hz		
Resolution	Maximum	1024×768@75Hz	1280×1024@75Hz		
Frequency	Horizontal	31.5~60KHz	31.5~80KHz		
Frequency	Vertical	56~75Hz			
Syr	nc Signal	TTL, P. or N.			
Tilting [Degree (U/D)	-5°~30° Degree			
Plu	ıg&Play	VESA DDC 1/2B			
	Input	Internal type: 100~240VAC, 50/60Hz, 0.5A			
Power	Consumption	Under 25W	Under 40W		
I Ower	Standby mode	1W less	1W less		
Power I	Management	VESA DPMS			
Environmental Temperature		0~25°C (32°F~77°F)			
Consideration	Humidity	90% less			
Dimensions	Outside	356mm(W) × 353mm(H) × 185mm(D)	387.5mm(W) × 396mm(H) × 185mm(D)		
Weight	Monitor	2.5kg	3.9kg		
vvoignt	Carton	1.2kg	1.4kg		

^{*} The specification of this monitor is subject to be changed without notice to improve performance.

FCC NOTICE

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC FULES.

OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITION:

(1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND

(2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED,

INCLUDING INTERFERENCE THAT MAY CAUSE UNDERSIRED

OPERATION.

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

NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment.

Such modifications could void the user's authority to operate the equipment.