PLANAR™

PX2611W
LCD Monitor

USER'S GUIDE

www.planar.com

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Preface

This manual is designed to assist users in setting up and using the LCD Monitor. Information in this document has been carefully checked for accuracy; however, no guarantee is given to the correctness of the contents. The information in this document is subject to change without notice. This document contains proprietary information protected by copyright. All rights are reserved. No part of this manual may be reproduced by any mechanical, electronic or other means, in any form, without prior written permission of the manufacturer. Windows is a registered trademark of Microsoft Inc. Other brand or product names are trademarks of their respective holders.

FCC Statement Warning

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 instruction, 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:

- Reposition or relocate the receiving antenna.
- Increase the separation between the equipment and the 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 monitor technician for help.

Warning

Use only shielded signal cables to connect I/O devices to this equipment. You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

This device complies with part 15FCC Rules. Operation is subject to the following two conditions(1) This device may not cause harmful interference. (2) This device must accept any interference received, including interference that may cause undesired operation.

Canadian DOC Notice

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.
Cet appareil numérique de la classe B repecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

Important Safety Instructions

Please read the following instructions carefully. This manual should be retained for future use.

1. To clean the LCD Monitor screen:
   -- Power off the LCD Monitor and unplug the AC Cord.
   -- Spray a non-solvent cleaning solution onto a rag.
   -- Gently clean the screen with dampened rag.
2. Do not place the LCD Monitor near a window. Exposing the monitor to rain water, moisture or sunlight can severely damage it.
3. Do not apply pressure to the LCD screen. Excess pressure may cause permanent damage to the display.
4. Do not remove the cover or attempt to service this unit by yourself. Servicing of any nature should be performed by an authorized technician.
5. Store the LCD Monitor in a room with a room temperature of -20° ~ 60°C (or -4° ~ 140°F). Storing the LCD Monitor outside this range could result in permanent damage.
6. If any of the following occurs, immediately unplug your monitor and call an authorized technician.
   * Monitor to PC signal cable is frayed or damaged.
   * Liquid spilled into LCD Monitor or the monitor has been exposed to rain.
   * LCD Monitor or the case is damaged.
7. Only use the supplied main lead to connect the monitor. For a nominal current up to 6A and a device weight above 3 kg, a line not lighter than H05VV-F, 3G, 0.75 mm^2 must be used.

Important Recycle Instruction:

Hg Lamp(s) inside this product contain mercury. This product may contain other electronic waste that can be hazardous if not disposed of properly. Recycle or dispose in accordance with local, state, or federal Laws. For more information, contact the Electronic Industries Alliance at WWW.EIAE.ORG. For lamp specific disposal information check WWW.LAMPRECYCLE.ORG.

Contains Mercury, Dispose of Properly 

Installation

Unpacking

Before unpacking the LCD Monitor, prepare a suitable workspace for your Monitor and computer. You need a stable and clean surface near a wall power outlet. Make sure that LCD Monitor has enough space around it for sufficient airflow. Though the LCD Monitor uses very little power, some ventilation is needed to ensure that the Monitor does not become too hot.

After you unpack the LCD Monitor, make sure that the following items were included in the box:

* LCD Monitor
* User's Guide
* Base
* Monitor-to-PC VGA Cable
* Monitor-to-PC DVI-D Cable
* Power Cord
* Monitor-to-PC "Up to Down" USB cable

If you find that any of these items is missing or appears damaged, contact your dealer immediately.

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Adjust height and angle of Tilt stand

The monitor screen may be raised or lowered and tilted (-5 to 40 degree). To raise or lower the monitor screen, place hands on each side of the monitor screen and lift or lower to the desired height as shown in the right figure.

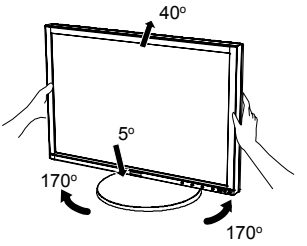


Figure 1-1

CAUTION:

* When lowering the monitor screen avoid catching your hand and fingers between the monitor screen and the tilt stand base.

*The monitor screen can be tilted back to over 180 degree for packing. When operating the monitor, do not tilt pass 40 degrees to prevent the monitor from falling backward or being damaged due to increased temperature within the monitor.

*Before tilting the screen back to 180 degree for packing, lower the screen down to the lowest position to prevent the monitor from falling over and being damaged.

*Do not push the surface of the monitor screen strongly and do not scratch it with your nails when you adjust the position of the monitor screen. Otherwise you might be injured or the display could be damaged.

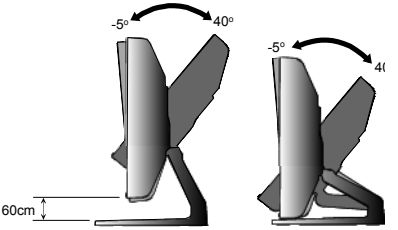


Figure 1-2

Note: When you tilt the monitor pass 40 degrees, you will hear clicking noise. Tilting pass 40 degrees becomes harder than tilting within 40 degrees..

Connecting the Display

1. Power off your computer.
2. Connect one end of the signal cable to the LCD Monitor's VGA port or DVI port. (See Fig 1-3)
3. Connect the other end of the signal cable to the VGA port or DVI port on your PC.
4. Make sure connections are secure.

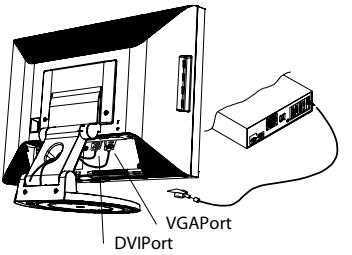


Figure 1-3

Connecting the AC Power

1. Connect the power cord to the LCD Monitor.(See Fig. 1-4)
2. Connect the power cord to an AC power source.
3. Turn the AC power switch to On.

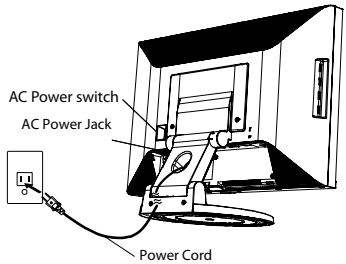


Figure 1-4

Connecting the USB Hub

1. Connect the "A" end of the USB cable to your computer.
2. Connect the "B "end of the USB cable to the USB hub on the monitor.
3. Connect USB compliant products directly to the USB hub on the monitor. (See Fig 1-5)

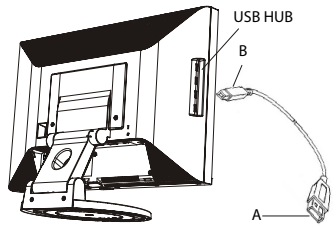


Figure 1-5

Setting Up the LCD Monitor

1. Make sure the AC power cord is connected to the LCD Monitor.
2. Press the power button located on the bezel of the monitor.
3. Once a signal is received, the monitor should automatically adjust. If not, push the "AUTO" button located on the bezel of the monitor.

Power Management System

This LCD Monitor complies with the VESA DPM Power Management guidelines. If you have VESA's DPM™ compliance display card or software installed in your PC, the monitor can automatically reduce its power consumption when not in use. If input from keyboard, mouse or other input devices is detected by the computer, the monitor will automatically "wake up". When the LCD Monitor is in power saving mode, the monitor screen will be blank and the power LED indicator will light yellow.

Display Controls

User Controls

A brief description and the location of all LCD Monitor functions controls and indicators

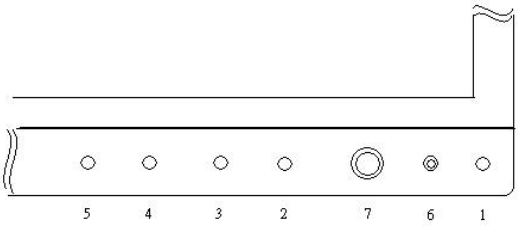


Figure 2-1

⏻	1	Push to turn ON or turn Off.
MENU	2	Activates OSD main menu.
EXIT	3	Exit OSD display / DV mode hot key.
SOURCE	4	Select DVI or D-SUB signal source. (Toggle Switch)
AUTO	5	Hot key for manually auto adjusting the display.
LED	6	Green when the monitor is on, Amber when in power saving mode, and Dark when off.
4D+1	7	A four direction key plus enter/exit button. Allows you to move up, down, left, right or pressed. See function chart below.

4D+1 Key Function Definition

	Push key up~ Hot Key: Contrast + Menu : Cursor Up	
Push key left~ Hot Key: Brightness - Menu: Cursor Left / Volume -	**Press key center~** Item Enter / Exit	**Push key right~** Hot Key: Brightness + Menu: Cursor right / Volume +
	Push key down~ Hot Key: Contrast - Menu: Cursor Down	

Adjusting the Monitor's Display

The monitor has four function control buttons to select among functions shown on OSD menu, designed for easy user-viewing environments.

OSD Function Menu

To activate the OSD Main menu, simply press "Menu" button , the menu diagram will pop up on the screen as shown on Fig. 2-2

Use the 4D+1 key to navigate through the function you want to adjust. Push the 4D+1 key to enter a sub-menu and adjust the value. Push the 4D+1 key again to exit the sub-menu. Pressing the "Exit" buttons allows you to exit the OSD menu at any time. Pressing the "Menu" key gets you back to the main menu.

Figure 2-2

Menu under input

Attention

Firmware revision may have been updated into a latest version while the version number shown on information item in OSD menu will stay as Ver 1

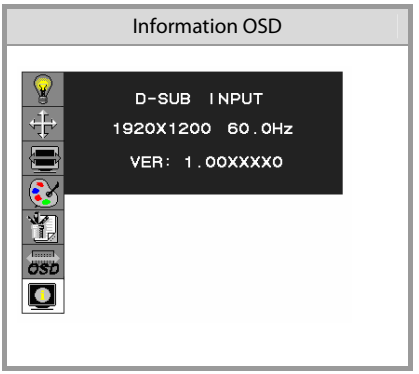
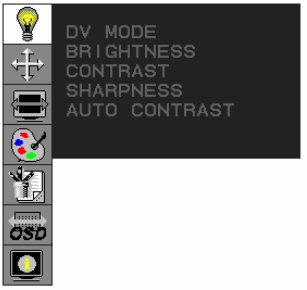
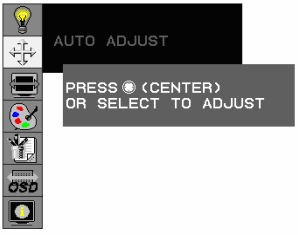
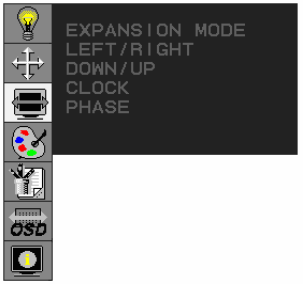
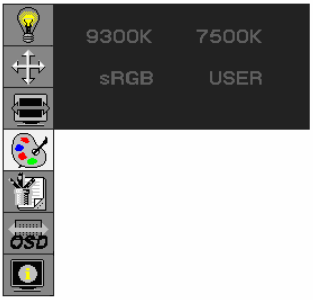
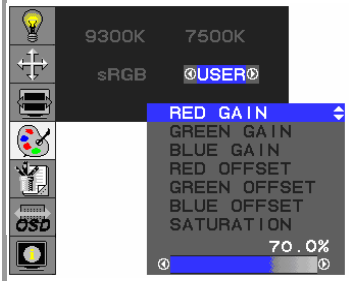
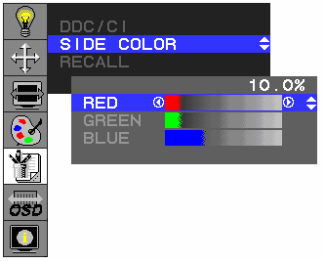
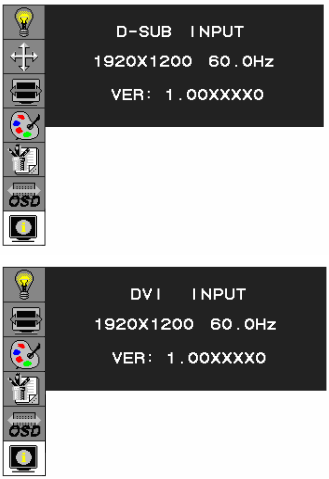
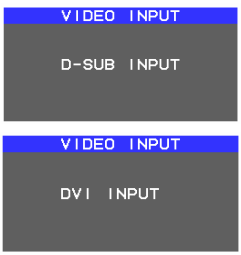
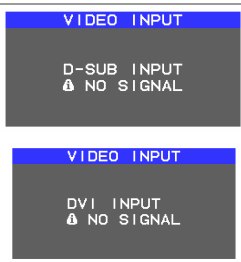
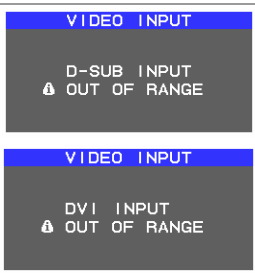


Figure 2-3

Function Description

Figure	Function	Function Description
	DV MODE	The following DV mode display setting can be selected by OSD (STANDARD/TEXT/sRGB/MOVIE/GAMING/PHOTO) Default setting: TEXT
	BRIGHTNESS	Adjust the brightness. Factory setting: 100.0%
	CONTRAST	Adjust the image contrast. Factory setting:50.0%
	SHARPNESS	Adjust the sharpness. Factory setting: 50%
	AUTO CONTRAST (Analog Input Only)	Adjust the CONTRAST to the optimal value for the video-input level automatically.
	AUTO ADJUST (Analog Input Only)	Adjust the H.POSITION, V.POSITION, H-SIZE and FINE to the optimal value automatically.
	EXPANSION MODE	This function allows you to choose from different display modes: Full: expands all resolution to full screen. Aspect: enlarges native resolution to either horizontal or vertical limit. Real: displays native resolution. Default setting: FULL
	LEFT/RIGHT (Analog Input Only)	Adjust the horizontal image position.
	DOWN/UP (Analog Input Only)	Adjust the vertical image position.
	CLOCK (Analog Input Only)	Adjust the sync frequency of internal pixel clock.
	PHASE (Analog Input Only)	Adjust the value for improve display focus.

	Color Temperature	Choose different color temperature (9300K, 7500K, sRGB, USER). Default is USER. USER mode adjustable.
	RED GREEN BLUE GAIN RED GREEN BLUE OFFSET SATURATION	Adjust the contrast and brightness of each color of the white balance. Allows you to adjust the Red/Green/Blue color gain. Allows you to adjust the Red/Green/Blue color offset. Adjust color depth, increasing this value makes pictures more colorful, decreasing makes pictures less colorful. Adjustable value from -100 to 100. Factory setting: 0
	DDC/CI SIDE COLOR RECALL	DDC/CI allows you to control certain settings of the monitor via computer. Default is ON. When "Full" is not selected in the "Expansion Mode" and the resolution is under the LCD panel's native resolution, the picture does not display at full screen. The borders/sides around the picture can be customized.  Adjust "Side Color" to customize the color of the border/sides around the picture. Reset all user settings to factory preset value except language selection.
	LANGUAGE	Select a language for OSD menu.
	OSD LEFT/RIGHT OSD UP/DOWN	Control the location of the OSD menu on the screen. Factory setting: Center of the screen.
	OSD TURN OFF	Select OSD Menu turn off time. Factory setting: 45 seconds.
	RESOLUTION NOTIFIER	Resolution notifier activity. Factory setting: OFF

	Information	Provide information about resolution, H/V frequencies, and polarity of the input signal.
	Input Select	This OSD informs the user the current signal that is displayed. This OSD will automatically turn off after 2 seconds or by pressing the “Exit” key.
	**OSD Warnings** NO SIGNAL	This OSD gives a warning when the selected input signal is not active. After power on or when the input signal become inactive, this warning appears. No signal OSD shall be shown after around 0.5sec from video mode detection. This OSD shall be turned off after 5 seconds automatically, or by “EXIT” key. Then change to power saving mode. If direction key is pressed during power saving mode, this warning OSD is opened again.
	**OSD Warnings** OUT OF RANGE	This function gives warning about input resolution or refresh rate that the monitor cannot display. If video signal is not at the proper timing when the monitor powers on or input signal is changed, this message opens and it disappears after 45 seconds, or by "EXIT" key.

	Auto Adjust (Analog Input Only)	When the monitor is displayed for the first time and the resolution is 800x600 and above, the monitor will auto adjust itself. To manually execute the Auto Adjust function, press the Auto button.

Target color coordinates

Color Temp.	9300K	7500K	sRGB
u′	0.189	0.194	0.198
v′	0.446	0.459	0.468
x	0.283	0.299	0.313
y	0.297	0.315	0.329

OSD Lock Out Function

OSD Lock Function allows you to lock out the OSD menu and the button keys.

To activates the OSD lock function, the monitor must be in a normal display mode and the information menu as shown in fig-2-4 must be activated. Then follow the instructions below.

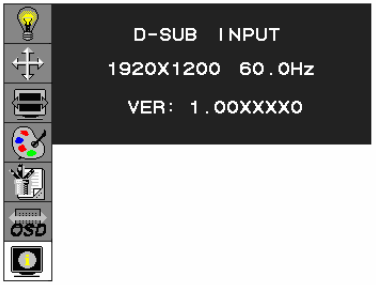
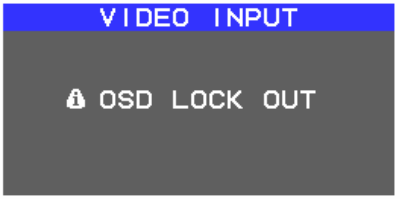


fig-2-4

Option 1: OSD lock – all buttons be locked except the "POWER" button.

Press "Exit Key + Menu Key + Soft power key" at same time

The monitor will show an "OSD Lock Out" message, showing time as "OSD TURN OFF" setting, and the message be show again by any button, also any button exit this message, but "Power" button be turn off / on monitor.

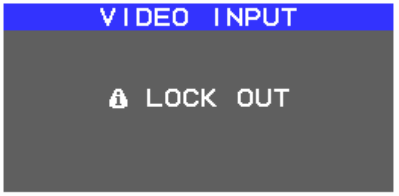


Only repeat this step to unlock.

Option 2: OSD & Power button lock – all buttons including "POWER" button be locked.

Press "Exit Key + Menu Key + Up key" at same time

The monitor will show an "OSD Lock Out" message, showing time as "OSD TURN OFF" setting, and the message be show again by any button, also any button exit this message, but "Power" button no action.



Only repeat this step to unlock.

Technical Information

Specifications

LCD Panel	
Size	26"
Display Type	Active matrix color TFT LCD
Resolution	1920 x 1200
Display Dot	1920 x (RGB) x 1200
Display Area (mm)	550.08 x 343.8 (H x V)
Display Color	16.7M (RGB 8 bit)

Video	
Input Signal	Analogue RGB ; Digital TMDS
Input Impedance	75 Ohm ± 2% (VGA)
Polarity	Positive, Negative (VGA)
Amplitude	0 - 0.7 ± 0.05 Vp (VGA)
Multi-mode Supported	Horizontal Frequency: 31 ~ 93.75kHz
	Vertical Frequency: 50 ~ 76 Hz

Control	
Power switch	On/Off switch with LED indicator

OSD	
Brightness	Digital
Contrast	Digital
Horizontal Position	Digital
Vertical Position	Digital
Phase	Digital
Clock	Digital
Display Mode Setup	Use EEPROM to save settings in memory

Others	
USB Hub (optional)	USB 2.0 Self Powered
Upstream	1 (Link to PC)
Downstream	4 (Link to Device)

Power Management

Mode	Power Consumption*	AC Input	LED Color
DPM ON	135W maximum	240 VAC	Green
DPM OFF	2W maximum	240 VAC	Amber
DC switch off	1W maximum	240 VAC	Dark
Disconnected	2W maximum	240 VAC	Dark

Meeting VESA DPM requirements measured from AC Input end of AC power cord.

Sync Input	Analogue
Signal	Separate TTL compatible horizontal and vertical synchronization
Polarity	Positive and negative

Plug & Play	Supports VESA DDC2B functions	
External Connection		
Power Input (AC input)	AC socket	
Video Cable	15-pin D-sub connector	
Environment		
Operating Condition:	Temperature	5°C to 40°C/41°F to 104°F
	Relative Humidity	20% to 80%
Storage Condition:	Temperature	-20°C to 60° C/-4°F to140° F
	Relative Humidity	5% to 85%
Power Supply (AC Input)		
Input Voltage	Single phase, 100 ~ 240VAC, 50 / 60 Hz	
Input Current	1.35 A maximum	
Size and Weight		
Dimensions	594 (W) x 456.9 (H) x 273.5 (D) mm	
Net Weight	11.2 ± 0.3 kg	
Gross Weight	13.4 ± 0.3 kg	

Standard Timing Table

If the selected timing is NOT included in table below, this LCD monitor will use the most suitable available timing.

TIMING NAME	FH (KHz) FV (Hz)	SYNC POLARITY	TOTAL (DOT / LINE)	ACTIVE (DOT / LINE)	SYNC WIDTH (DOT / LINE)	FRONT PORCH (DOT / LINE)	BACK PORCH (DOT / LINE)	PIXEL FOREQ.(MHz)
640x350	31.469	+	800	640	96	16	48	25.175
VGA-350	70.087	–	449	350	2	37	60	
640x400	31.469	–	800	640	96	16	48	25.175
VGA-GRAPH	70.087	+	449	400	2	12	35	
640x480	31.469	–	800	640	96	16	48	25.175
VGA-480	59.94	–	525	480	2	10	33	
640x480	35	–	864	640	64	64	96	30.24
APPLE MAC-480	66.67	–	525	480	3	3	39	
640x480	37.861	–	832	640	40	16	120	31.5
VESA-480-72Hz	72.809	–	520	480	3	1	20	
640x480	37.5	–	840	640	64	16	120	31.5
VESA-480-75Hz	75	–	500	480	3	1	16	
720x350	31.47	+	900	720	108	18	54	28.322
70Hz	70.087	–	449	400	2	37	60	
720x400	31.469	–	900	720	108	18	54	28.322
VGA-400-TEXT	70.087	+	449	400	2	12	35	
832x624	49.725	–	1152	832	64	32	224	57.2832
APPLE MAC-800	74.55	–	667	624	3	1	39	
800x600	35.156	+	1024	800	72	24	128	36
SVGA	56.25	+	625	600	2	1	22	
800x600	37.879	+	1056	800	128	40	88	40
VESA-600-60Hz	60.317	+	628	600	4	1	23	
800x600	48.077	+	1040	800	120	56	64	50
VESA-600-72Hz	72.188	+	666	600	6	37	23	
800x600	46.875	+	1056	800	80	16	160	49.5
VESA-600-75Hz	75	+	625	600	3	1	21	
848x480	31.02	+	1088	848	64	32	152	56.25
VESA	60	+	517	480	3	1	27	
1024x768	48.363	–	1344	1024	136	24	160	65
XGA	60.004	–	806	768	6	3	29	
1024x768	53.964	+	1328	1024	176	16	112	71.664
COMPAQ-XGA	66.132	+	816	768	4	8	36	
1024x768	56.476	–	1328	1024	136	24	144	75
VESA-768-70Hz	70.069	–	806	768	6	3	29	
1024x768	60.023	+	1312	1024	96	16	176	78.75
VESA-768-75Hz	75.029	+	800	768	3	1	28	
1024x768	60.24	–	1328	1024	96	32	176	80
APPLE MAC-768	75.02	–	803	768	3	3	29	
1152x864	54.054	+	1480	1152	96	40	192	80
(60Hz)	59.27	+	912	864	3	13	32	
1152x864	63.851	+	1480	1152	96	32	200	94.499
(70Hz)	70.012	+	912	864	3	1	44	
1152x864	67.5	+	1600	1152	128	64	256	108
(75Hz)	75	+	900	864	2	2	32	
1152x870	68.68	–	1456	1152	128	32	144	100

(75Hz)	75.06	–	915	870	3	3	39	
1280x720	44.772	–	1664	1280	128	64	192	74.5
(60Hz)	59.855	+	748	720	5	3	20	
1280x960	60	+	1800	1280	112	96	312	108
(60Hz)	60	+	1000	960	3	1	36	
1280x960	70	+	1800	1280	112	96	312	126
(70Hz)	70	+	1000	960	3	1	36	
1280x960	75	+	1800	1280	112	96	312	135
(75Hz)	75	+	1000	960	3	1	36	
1280x1024	64	+	1688	1280	112	48	248	108
VESA-1024-60Hz	60	+	1066	1024	3	1	38	
1280x1024	80	+	1688	1280	144	16	248	135
VESA-1024-75Hz	75	+	1066	1024	3	1	38	
1360x768	75	+	1792	1360	112	64	256	85.5
60Hz	75	+	795	768	6	3	18	
1440x900	55.469	+	1600	1440	32	48	80	88.75
Red. BLKing 60Hz	59.901	–	926	900	6	3	17	
1440x900	55.935	–	1904	1440	152	80	232	106.5
60Hz	59.887	+	934	900	6	3	25	
1440x900	70.635	–	1936	1440	152	96	248	136.75
75Hz	74.984	+	942	900	6	3	33	
1680x1050	64.674	+	1840	1680	32	48	80	119
Red. BLKing 60Hz	59.883	–	1080	1050	6	3	21	
1680x1050	65.29	–	2240	1680	176	104	280	146.25
60Hz	59.954	+	1089	1050	6	3	30	
1680x1050	82.306	–	2272	1680	176	120	296	187
75Hz	74.892	+	1099	1050	6	3	40	
1600x1200	75	+	2160	1600	192	64	304	162
VESA-1200-60Hz	60	+	1250	1200	3	1	46	
1600x1200	87.5	+	2160	1600	192	64	304	189
VESA-1200-70Hz	70	+	1250	1200	3	1	46	
1600x1200	93.75	+	2160	1600	192	64	304	202.5
VESA-1200-75Hz	75	+	1250	1200	3	1	46	
1920x1200	74.038	+	2080	1920	32	48	80	154
Red. BLKing 60Hz	59.95	–	1235	1200	6	3	26	
1920x1200	74.566	–	2592	1920	200	136	336	193.25
60Hz	59.885	+	1245	1200	6	3	36	

*** DVI signal can not support 1680X1050@75, 1600X1200@70, 1600X1200@75, 1920X1200@60 non reduce mode

Note: Mode 640x350, 640x400 and 720x400 will be locate on middle in the position and cannot be expanded to full screen on vertical direction.

Troubleshooting

This LCD Monitor has pre-adjusted using factory standard VGA timings. Due to the output timing differences among various VGA cards in the market, users may initially experience an unstable or unclear display whenever a new display mode or new VGA card is selected.

Attention

This LCD Monitor Supports Multiple VGA Modes.

Refer to the Standard Timing Table for a listing of modes supported by this LCD Monitor.

PROBLEM Picture is unclear and unstable

The picture is unclear and unstable, please perform the following steps:

1. Enter PC to "Shut Down Windows" status while you're in MS-Windows environment.
2. Check the screen to see if there's any black vertical stripes appear. If there are, take advantage of the "Clock" function in OSD menu and adjust (by increment or decrement numbers) until those bars disappear.
3. Move to "Phase" function in OSD menu again and adjust the monitor screen to its most clear display.
4. Click "No" on "Shut Down Windows" and back to the normal PC operating environment.

PROBLEM There is no picture on LCD Monitor

If there's no picture on the LCD Monitor, please perform the following steps:

1. Make sure the power indicator on the LCD Monitor is ON, all connections are secured, and the system is running on the correct timing. Refer to Chapter 3 for information on timing.
2. Turn off the LCD Monitor and then turn it back on again. If there is still no picture, press the Adjustment Control button several times.
3. If step 2 doesn't work, connect your PC system to another external CRT. If your PC system Functions properly with a CRT Monitor but it does not function with the LCD Monitor, the output timing of the VGA card may be out of the LCD's synchronous range. Please change to an alternative mode listed in the Standard Timing Table or replace the VGA card, and then repeat steps 1 and 2.

PROBLEM There is no picture on LCD Monitor

If you have chosen an output timing that is outside of the LCD Monitor's synchronous range (Horizontal: 31 ~ 93.75 kHz and Vertical: 50 ~ 76 Hz), the OSD will display a "Out of Range" message. Choose a mode that is supported by your LCD Monitor.

Also, if the signal cable is not connected to LCD monitor at all or properly, the monitor screen will display a message "No Input Signal".

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HDPNRW8800I