

HANNSpree X<sub>M</sub>

HANNSpree

**19 inch Screen  
TFT LCD Monitor**

MAF-001001

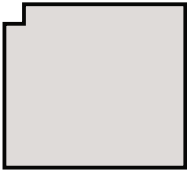
**User's Manual**

HANNSPREE, INC.  
www.hannspree.com

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## REGULATORY INFORMATION

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Before operating the monitor, please read this manual thoroughly. This manual should be retained for future reference.

### FCC Class B Radio Frequency Interference 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, 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 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.

The device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference; and (2) this device must accept any interference received, including interference that may cause undesired operations.

### CANADA

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



This device complies with requirement of EMC directive 89/336/EEC with regard to Electromagnetic Compatibility, and 73/23/EEC and 93/68/EEC with regard to Low Voltage directive.

Socket-outlet shall be near the equipment and shall be accessible.

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## TCO'03 ( TCO'03 applied model only )



### **Congratulations!**

The display you have just purchased carries the TCO'03 Displays label. This means that your display is designed, manufactured and tested according to some of the strictest quality and environmental requirements in the world. This makes for a high performance product, designed with the user in focus that also minimizes the impact on our natural environment.

Some of the features of the TCO'03 Display requirements:

#### **Ergonomics**

- Good visual ergonomics and image quality in order to improve the working environment for the user and to reduce sight and strain problems. Important parameters are luminance, contrast, resolution, reflectance, colour rendition and image stability.

#### **Energy**

- Energy-saving mode after a certain time – beneficial both for the user and the environment
- Electrical safety

#### **Emissions**

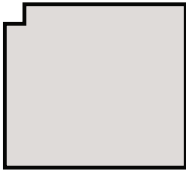
- Electromagnetic fields
- Noise emissions

#### **Ecology**

- The product must be prepared for recycling and the manufacturer must have a certified environmental management system such as EMAS or ISO 14 001
- Restrictions on
  - chlorinated and brominated flame retardants and polymers
  - heavy metals such as cadmium, mercury and lead.

The requirements included in this label have been developed by TCO Development in cooperation with scientists, experts, users as well as manufacturers all over the world. Since the end of the 1980s TCO has been involved in influencing the development of IT equipment in a more user-friendly direction. Our labelling system started with displays in 1992 and is now requested by users and IT-manufacturers all over the world.

For more information, please visit  
[www.tcodevelopment.com](http://www.tcodevelopment.com)



## RECYCLING INFORMATION

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**HANNspree Inc.** cares about environmental protection strategies and in using manufacturing methods and treatments that lend themselves to conservation and recycling devices at the end-of-life.

Our products, whenever possible, contain recyclable materials which can be recycled into new devices. When necessary for operation, other materials may be classified as hazardous or poisonous substances. We strongly encourage you to research the provided information about recycling this device.

**United State :** <http://newyork.earth911.org/>

**Asia :** [http://recycle.epa.gov.tw/public/public4\\_2.htm](http://recycle.epa.gov.tw/public/public4_2.htm)

**Europe :**

**Ireland**

**Company : McGrath Environmental Consultants Ltd.**

**Contact Person : Ms. McGrath Clodagh**

Address: 20 Lower John Street, Cork, Ireland.

Tel : 021 4554833 Fax : 021 4505805

**Norway :**

**Company : Bergfald & Co as Contact Person : Mr. Solevåg Øystein**

Address : Solavågsvegen 90, EIDSNES, NORWAY ,Post Code : N-6037

Tel : +47 40 23 47 05 Fax : +47 70 19 40 17

Web Site : [http://www.bergfald.no/bergfald\\_english.html](http://www.bergfald.no/bergfald_english.html)

**United Kingdom :**

**Company : ARENA Network Contact Person : Dr. Tillotson Allen**

Address : Bank Buildings Treforest Estate, Pontypridd, Rhondda Cynon Taff, Kindom Post Code :

CF37 5UR

Tel : 01443 844001 Fax : 01443 844002

Web Site : <http://www.arenanetwork.org>



## SAFETY NOTICE

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1. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
2. Shielded interface cables and AC power cord, if any, must be used in order to comply with the emission limits.
3. The manufacturer is not responsible for any radio or TV interference caused by unauthorized modification to this equipment. It is the responsibilities of the user to correct such interference.

### **WARNING:**

To prevent fire or shock hazard, do not expose the monitor to rain or moisture. Dangerously high voltages are present inside the monitor. Do not open the cabinet. For all service issues, please refer to qualified personnel only.

### **PRECAUTIONS**

- Do not use the monitor near water, e.g. near a bathtub, washbowl, kitchen sink, laundry tub, swimming pool or in a wet basement.
- Do not place the monitor on an unstable cart, stand, or table. If the monitor falls, it can injure a person and cause serious damage to the appliance. Use only a cart or stand recommended by the manufacturer or sold with the monitor. If you mount the monitor on a wall or shelf, use a mounting kit approved by the manufacturer and follow the kit instructions.
- Slots and openings in the back and bottom of the cabinet are provided for ventilation. To ensure reliable operation of the monitor and to protect it from overheating, be sure these openings are not blocked or covered. Do not place the monitor on a bed, sofa, rug, or similar surface. Do not place the monitor near or over a radiator or heat register. Do not place the monitor in a bookcase or cabinet unless proper ventilation is provided.
- The monitor should be operated only from the type of power source indicated on the label. If you are not sure of the type of power supplied to your home, consult your dealer or local power company.
- Unplug the unit during a lightening storm or when it will not be used for long period of time. This will protect the monitor from damage due to power surges.
- Do not overload power strips and extension cords. Overloading can result in fire and / or electric shock.
- Never push any object into the slot on the monitor cabinet. It could short circuit parts causing a fire or electric shock. Never spill liquids on the monitor.
- Do not attempt to service the monitor by yourself; opening or removing covers can expose you to dangerous voltages and other hazards. Please refer all service issues to qualified service personnel.
- To ensure satisfactory operation, use the monitor only with UL listed computers which have appropriate configured receptacles marked between 100 - 240V AC, Min. 5A.
- The wall socket shall be installed near the equipment and shall be easily accessible.

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## SPECIAL NOTES ON LCD MONITORS

The following symptoms are normal with LCD monitor and do not indicate a problem.

- Due to the nature of the fluorescent light, the screen may flicker during initial use. Turn off the Power Switch and then turn it on again to make sure the flicker disappears.
- You may find slightly uneven brightness on the screen depending on the desktop pattern you use.
- The LCD screen has effective pixels of 99.99% or more. It may include blemishes of 0.01% or less such as a missing pixel or a pixel lit all of the time.
- Due to the nature of LCD screens, an after image of the previous displayed content may remain if this image has been the displayed for several hours. The LCD screen should recover if the image is changed or powered off for several hours.
- If the screen suddenly flashes erratically or the backlighting fails, please contact your dealer or service center for repair. Do not attempt to repair the monitor yourself.



# PREFACE

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Thank you for purchasing a Hannspree Liquid Crystal Display Monitor (LCD Monitor).

Please carefully read this manual in its entirety before setting up, using or operating your Monitor. To ensure the safe and correct installation and operations of the Monitor, it is important that the safety and operation instructions in this manual are followed.

This instruction manual is designed to assist you in setting up and using the Monitor. The information in this manual has been carefully checked for accuracy; however, no guarantee is given to the correctness of the contents. The information in this manual is subject to change without notice.

To the extent allowed by applicable law, Hannspree, Inc. (“Hannspree”) shall not be liable for direct, indirect, special, exemplary, incidental or consequential damages arising from any defect or omission in this manual, even if advised of the possibility of such damages in advance.



# BEFORE YOU OPERATE THE MONITOR

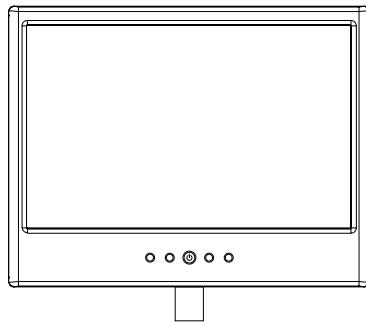
## FEATURES

- 19" screen TFT Color LCD Monitor
- Crisp, Clear Display
- Recommended Resolutions:  
19" Wide (16:10)1440 X 900  
19"(5:4)1280 X 1024
- EPA ENERGY STAR®
- Ergonomic Design
- Space Saving, Compact Case Design

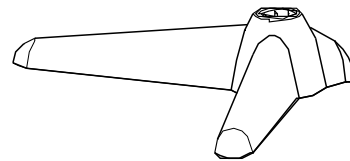
## CHECKING THE CONTENTS OF THE PACKAGE

The product package should include the following items:

### LCD Monitor



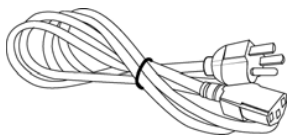
Screen



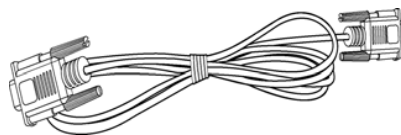
Base

\* Note : The screen and base design may vary on different models. For more information, please refer to the Quick Start Guide of your Monitor model.

### Cables and User manual



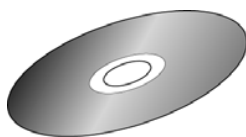
Power Cord



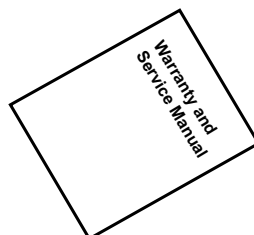
VGA Cable



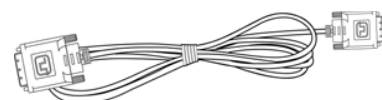
Audio Cable



User's manual



Warranty and Service Manual



DVI-D Cable (Optional)

\* Note : Images are for illustration only and may vary by model or region.

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## **POWER**

### ***POWER SOURCE:***

1. Make sure that the power cord is the correct type required in your area.
2. This LCD monitor has an Internal universal power supply that allows operation in either 100/120V AC or 220/240V AC voltage area (No user adjustment is required.)
3. Plug one end of the AC-power cord into the LCD monitor's AC input socket and the other into a surge protection power strip or device.

# CONTROLS AND CONNECTORS

## CABLE CONNECTIONS:

Turn off your computer before performing the procedure below.

1. Connect one end of the 15-pin D-Sub cable to the back of the monitor and connect the other end to the computer's D-Sub port.  
-or-
2. Connect one end of a 24-pin DVI-D to the back of the monitor. Connect the other end to the computer's DVI-D port.  
note: This monitor is capable of operating in 'Dual input' mode. Only one of either the 15-pin D-sub or the 24-pin DVI-D connections is needed for normal operation.
3. Connect the audio cable between the monitor's audio input and the PC's audio output (green port). This connection is optional and not required for normal operation of the monitor.
4. Plug one end of the AC-power cord into the LCD monitor's AC input socket and the other into a surge protection power strip or device.
5. Turn on your monitor and computer.

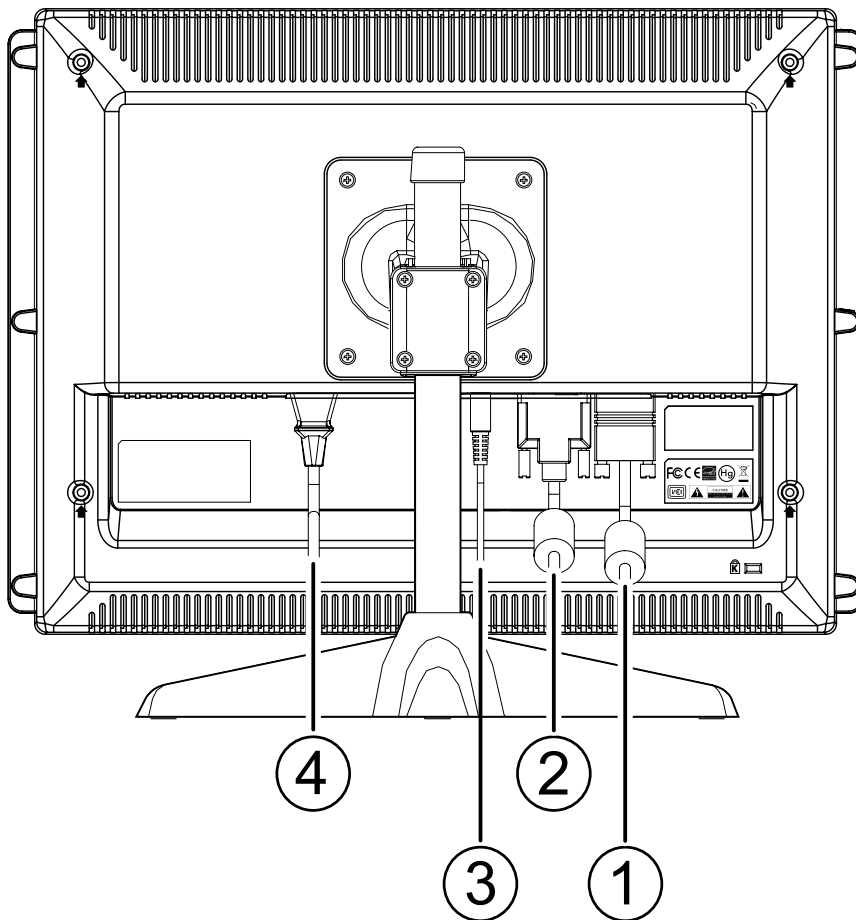


Figure.2. Connecting Cables

1.	D-Sub Input	2.	DVI-D Input
3.	Audio Input	4.	Power AC Input

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## ADJUSTING THE VIEWING ANGLE

- For optimal viewing it is recommended to look at the full face of the monitor, then adjust the monitor's angle to your own preference.
- Hold the stand so you do not topple the monitor when you change the monitor's angle.
- You are able to adjust the monitor's angle at 20° alternative from -5° to 15° or 0° to 20° .
- For more information, please refer to the Quick Start Guide of your Monitor model.

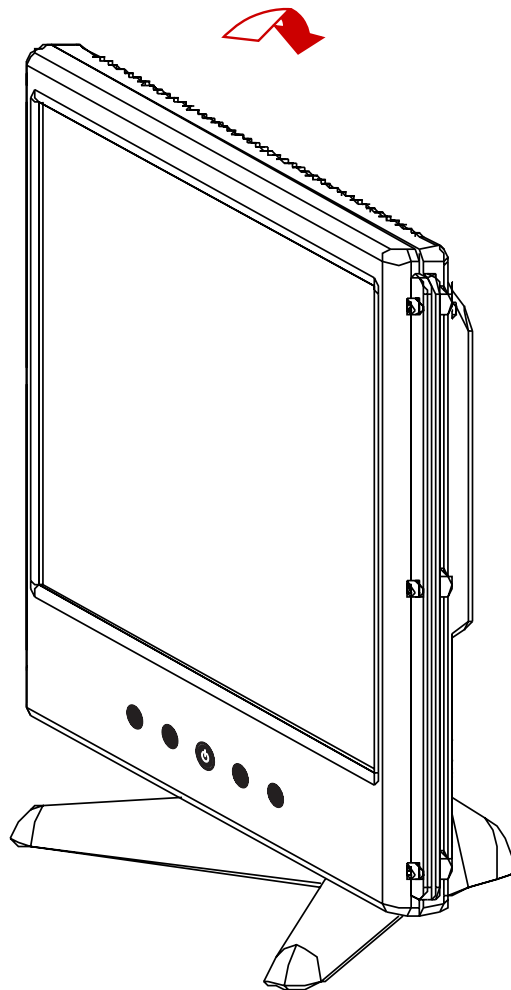


Figure.3. monitor's angle

### **NOTES:**

- Avoid touching the LCD screen when changing the viewing angle as it may cause damage.
- Be careful not to place fingers or hands near the hinges when tilting the monitor, otherwise pinching can result.

# OPERATING INSTRUCTIONS

## GENERAL INSTRUCTIONS

Press the power button to turn the monitor on or off. The other control buttons are located at front panel of the monitor (See Figure 4). By changing these settings, the picture can be adjusted to your personal preferences.

- The power cord should be connected.
- Connect the Signal cable from the monitor to the computer.
- Press the power button to turn on the monitor. The LED will turn green.

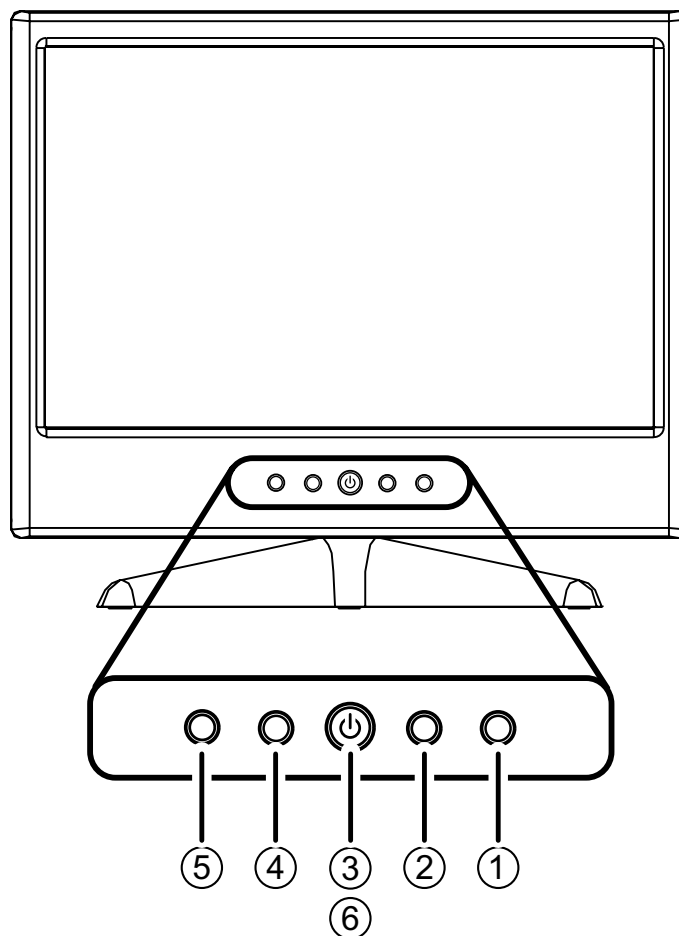


Figure.4. External Control Button

## EXTERNAL CONTROLS:

1.	MENU	2.	VOL + ►
3.	POWER	4.	◀ VOL -
5.	AUTO	6.	Power Indicator (LED)

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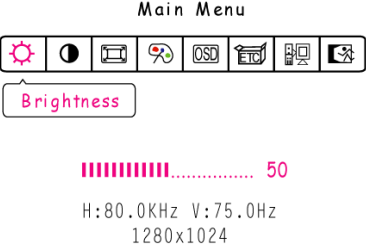
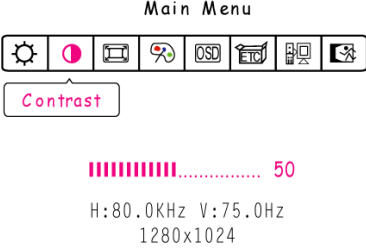
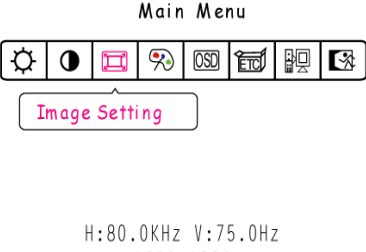
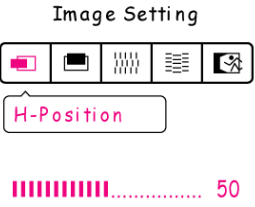
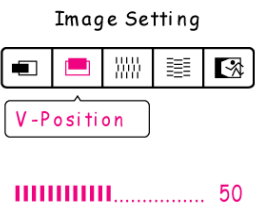
## FRONT PANEL CONTROL

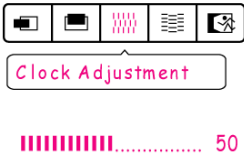
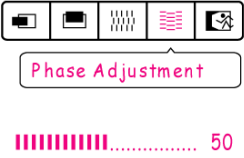
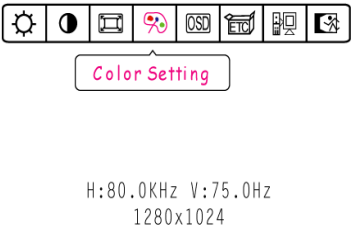
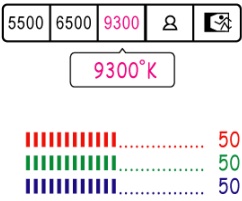
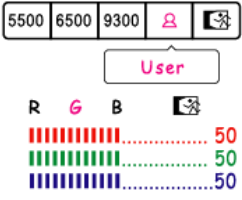
- **Power Button:**  
Press this button to switch the monitor on and off.
- **Power Indicator (LED):**  
Green — Power On mode.  
Orange — Power saving mode
- **MENU / ENTER:**
  1. Activate the OSD menu or adjust the function settings and confirmation.
  2. Exit OSD menu when in volume OSD status.
- **◀ VOL - / VOL + ▶ :**
  1. Activates the volume control when the OSD is OFF.
  2. Navigate through adjustment icons when OSD is ON or adjust a function when function is activated.
- **Auto Adjust button:**  
When OSD menu is in off status, press this button to activate the Auto Adjustment function.  
(The Auto Adjustment function is used to optimized the H-Position, V-Position, Clock and Phase.)

### **NOTES:**





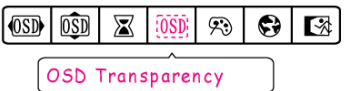
- Do not install the monitor in a location near heat sources such as radiators or air ducts, or in a place subject to direct sunlight, or excessive dust or mechanical vibration or shock.
- Save the original carton and packing materials, as they will come in handy if you ever have to ship your monitor.
- To ensure problem-free shipping, pack your monitor in the same packing materials and carton as it was shipped from the factory.
- To keep the monitor looking new, periodically clean it with a soft cloth. Stubborn stains may be removed with a cloth lightly dampened with a mild detergent solution. Never use strong solvents such as paint thinners, benzene, or abrasive cleaning products. These and other harsh cleaning agents will damage the cabinet of the monitor.



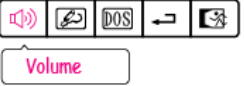


# HOW TO ADJUST A SETTING

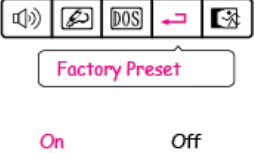

OSD Diagram	OSD Description
<p style="text-align: center;">Main Menu</p> 	<p><b>Brightness adjustment:</b> Select the 「Brightness」 option on the 「Main Menu」. Press enter and adjust the level.</p>
<p style="text-align: center;">Main Menu</p> 	<p><b>Contrast adjustment:</b> Select the 「Contrast」 option on the 「Main Menu」. Press enter and adjust the level.</p>
<p style="text-align: center;">Main Menu</p> 	<p><b>How to adjust screen position and quality:</b> Select 「Image Setting」 on the 「Main Menu」, and then Press enter.</p>
<p style="text-align: center;">Image Setting</p> 	<p><b>Horizontal position adjustment:</b> Select the 「H-position」 option to shift the screen image to the left or right. Press enter and adjust the level.</p>
<p style="text-align: center;">Image Setting</p> 	<p><b>Vertical position adjustment:</b> Select the 「V-position」 option to shift the screen image up or down. Press enter and adjust the level.</p>

OSD Diagram	OSD Description
<p data-bbox="316 376 456 400">Image Setting</p> 	<p data-bbox="783 353 1054 387"><b>Clock adjustment:</b></p> <p data-bbox="783 392 1362 533">Select the 「Clock Adjustment」 option to reduce the vertical flicker of characters on the screen. Press enter and adjust the level.</p>
<p data-bbox="316 716 456 741">Image Setting</p> 	<p data-bbox="783 694 1062 728"><b>Phase adjustment:</b></p> <p data-bbox="783 732 1374 873">Select the 「Phase Adjustment」 option to reduce the horizontal flicker of characters on the screen. Press enter and adjust the level.</p>
<p data-bbox="341 1055 446 1079">Main Menu</p> 	<p data-bbox="783 1030 1082 1064"><b>How to adjust color:</b></p> <p data-bbox="783 1068 1362 1142">Select the 「Color Setting」 option on the 「Main Menu」, and then Press enter.</p>
<p data-bbox="325 1395 462 1420">Color Setting</p> 	<p data-bbox="783 1370 1287 1444">Move the cursor to one of the preset options and select it.</p>
<p data-bbox="325 1736 462 1760">Color Setting</p> 	<p data-bbox="783 1711 1086 1744"><b>User defined option:</b></p> <p data-bbox="783 1749 1324 1823">Move the cursor to the User option and select it</p> <ol data-bbox="783 1827 1374 2038" style="list-style-type: none"> <li data-bbox="783 1827 1374 1901">1. To adjust the red, enter the 「R」option and adjust the level.</li> <li data-bbox="783 1906 1374 1980">2. To adjust the green, enter the 「G」 option and adjust the level.</li> <li data-bbox="783 1984 1374 2038">3. To adjust the blue, enter the 「B」option and adjust the level.</li> </ol>



OSD Diagram	OSD Description
<p style="text-align: center;">Main Menu</p>  <p style="text-align: center;">H:80.0KHz V:75.0Hz 1280x1024</p>	<p><b>How to set the OSD:</b> Select 「 OSD Setting 」 on the 「 Main Menu 」 , and then Press enter.</p>
<p style="text-align: center;">OSD Setting</p>  <p style="text-align: center;">       ..... 50</p>	<p><b>OSD horizontal adjustment:</b> Select the 「 OSD H-Position 」 option to adjust the horizontal position of the OSD. Press enter and adjust the level.</p>
<p style="text-align: center;">OSD Setting</p>  <p style="text-align: center;">       ..... 50</p>	<p><b>OSD vertical position adjustment:</b> Select the 「 OSD V-Position 」 option to adjust the vertical position of the OSD. Press enter and adjust the level.</p>
<p style="text-align: center;">OSD Setting</p>  <p style="text-align: center;">       ..... 50</p>	<p><b>OSD timer setting:</b> Select the 「 OSD Time-out 」 option to set the OSD time out from 10 to 120 seconds. Press enter and adjust the level.</p>
<p style="text-align: center;">OSD Setting</p>  <p style="text-align: center;">0 &lt; 1 &lt; 2 &lt; 3 &lt; 4 &lt; 5 &lt; 6</p>	<p><b>OSD Transparency setting:</b> Select the 「 OSD Transparency 」 option to adjust the transparency of the OSD. Press enter and adjust the level.</p>

OSD Diagram	OSD Description
<p style="text-align: center;">OSD Setting</p>  <p style="text-align: center;">1 2 3 4 5 6</p>	<p><b>OSD color setting:</b> Select the 「OSD Color」 setting option to adjust the color of the OSD. Press enter and adjust the level.</p>
<p style="text-align: center;">OSD Setting</p>  <p>繁體中文 简体中文 日本語 한국어 English Deutsch Français Español Italiano Português Nederlands</p>	<p><b>Language:</b> Select the 「Language」 option to change the language of the OSD. Press enter and select a language. (Please note the diagram is for reference only. The OSD Language options may vary by model and region.)</p>
<p style="text-align: center;">Other Setting</p>  <p style="text-align: center;">       ..... 50</p>	<p><b>Volume adjustment:</b> Select the 「Volume」 option to change the volume level. Press enter and adjust the level.</p>
<p style="text-align: center;">Other Setting</p>  <p style="text-align: center;">0 &lt; 1 &lt; 2 &lt; 3 &lt; 4 &lt; 5 &lt; 6</p>	<p><b>Sharpness:</b> Select the 「Sharpness」 option to adjust the sharpness of the display. Set the value from 0 to 6.</p>
<p style="text-align: center;">Other Setting</p>  <p style="text-align: center;">720X400 640X400</p>	<p><b>DOS mode:</b> Select the 「DOS mode」 option to set the monitor for use with PC. Press enter and select 720 x 400 or 640 x 400.</p>

OSD Diagram	OSD Description
<p data-bbox="331 398 477 421">Other Setting</p> 	<p data-bbox="783 376 1182 405"><b>Recall the factory settings:</b></p> <p data-bbox="783 412 1374 551">Select the 「 Factory Preset 」option to reset to the monitor's default setting. This will erase the current settings. Press enter and select On or Off.</p>
<p data-bbox="357 757 467 779">Main Menu</p> 	<p data-bbox="783 734 986 763"><b>Input Setting:</b></p> <p data-bbox="783 770 1390 909">Select the 「 Input Setting 」option to change between the analog (D-Sub) or Digital (DVI) source. Press enter and select Analog or Digital.</p>

## PLUG AND PLAY ( Plug & Play DDC2B Feature )

This monitor is equipped with VESA DDC2B capabilities according to the VESA DDC STANDARD. It allows the monitor to inform the computer or host system of its identity and, depending on the level of DDC used, communicate additional information about its display capabilities. The DDC2B is a bidirectional data channel based on the I<sup>2</sup>C protocol. The host can request EDID information over the DDC2B channel.

If your computer, video card, and operating system support DDC2B, your monitor should automatically be set to its optimal configuration. Some computer systems may not have the capability to properly detect this information. In addition, some computer systems will require manually configuring the video options. In most cases, software and/or driver updates will correct this issue. Please contact your computer or video card manufacturer for more details.

**THIS MONITOR WILL APPEAR TO BE NON-FUNCTIONAL IF THERE IS NO VIDEO INPUT SIGNAL. IN ORDER FOR THIS MONITOR TO OPERATE PROPERLY, THERE MUST BE A VIDEO INPUT SIGNAL.**

This monitor meets the Green monitor standards as set by the Video Electronics Standards Association (VESA) and/or the United States Environmental Protection Agency (EPA) and The Swedish Confederation Employees (NUTEK). This feature is designed to conserve electrical energy by reducing power consumption when there is no video-input signal present. When there is no video input signal this monitor, following a time-out period, will automatically switch to an OFF mode. This reduces the monitor's internal power supply consumption. After the video input signal is restored, full power is restored and the display is automatically redrawn. The appearance is similar to a "Screen Saver" feature except the display is completely off. The display is restored by pressing a key on the keyboard, or clicking the mouse.

# TECHNICAL SUPPORT (FAQ)

## Q & A FOR GENERAL DEFECTS

PROBLEM & QUESTION	POSSIBLE SOLUTION
Power LED is not on	*Check the power cord.
No Plug & Play or screen image is stretch or seems out of proportion	*Check if the PC system is Plug & Play compatible. *Check if the Video Card is Plug & Play compatible. *Check if the D-15 plug pin of Video Cable is bent or broken.
Picture is dim, too bright or fuzzy	*Adjust the Clock, Phase or Contrast and Brightness Controls. *Manually set resolution to 1440 X 900 (for 19" Wide models) or 1280 X1024 for 19" models. Please consult your operating system manual for specific instructions. *Update Video Card driver
Picture bounces or a wave pattern is present in the picture	*Reposition electrical devices that may cause electrical interference.
The power LED is ON (orange) but there's no video or no picture.	*Computer Power Switch should be in the ON position. *Computer Video Card should be snugly seated in its slot. *Make sure monitor's video cable is properly connected to the computer. *Inspect monitor's video cable and make sure none of the pins are bent. *Make sure computer is operational by hitting the CAPS LOCK key on the keyboard while observing the CAPS LOCK LED. The LED should either turn ON or OFF after hitting the CAPS LOCK key.
Missing one of the primary colors (RED, GREEN, or BLUE)	*Inspect the monitor's video cable and make sure that none of the pins are bent.
Screen image is not centered or sized properly.	*Adjust pixel frequency CLOCK and PHASE or press hot-key (AUTO).
Picture has color defects (white does not look white)	*Adjust RGB color or select color temperature.
Horizontal or vertical disturbances on the screen	*Use win 95/98/2000/NT/ME/XP; "shut-down mode. Adjust CLOCK" and PHASE or perform hot- key (AUTO).

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## ERROR MESSAGE & POSSIBLE SOLUTION

### ■ CABLE NOT CONNECTED :

1. Check whether the signal-cable is properly connected. If the connector is loose, tighten the connector screws.
2. Check the signal-cable's connection pins for damage.

### ■ INPUT NOT SUPPORT :

Your computer has been set to an unsuitable display mode. Set the computer to a display mode from the table below:

#### **FACTORY PRESET TIMING TABLE:**

TIMING	MODE	HORIZONTAL FREQUENCY (kHz)	VERTICAL FREQUENCY (Hz)
640x350	VGA-350	31.469	70.087
640x400	VGA-GRAPH	31.469	70.087
640x400	NEC PC9821	31.5	70.15
640x480	VGA-480	31.469	59.94
640x480	APPLE MAC-480	35.00	66.67
640x480	VESA-480-72Hz	37.861	72.809
640x480	VESA-480-75Hz	37.5	75
720x400	VGA-400-TEXT	31.469	70.087
832x624	APPLE MAC-800	49.725	74.55
800x600	SVGA	35.156	56.25
800x600	VESA-600-60Hz	37.879	60.317
800x600	VESA-600-72Hz	48.077	72.188
800x600	VESA-600-75Hz	46.875	75
1024x768	XGA	48.363	60.004
1024x768	COMPAQ-XGA	53.964	66.132
1024x768	VESA-768-70Hz	56.476	70.069
1024x768	VESA-768-75Hz	60.023	75.029
1024x768	APPLE MAC-768	60.24	75.02
1152x864	75Hz	67.50	75.00
1280x960	60Hz	60.00	60.00
1280x1024	VESA-1024-60Hz	64	60
1280x1024	VESA-1024-75Hz	80	75
* 1440x900	VESA-1440-60Hz	55.935	59.887
* 1440x900	VESA-1440-75Hz	70.635	75

\* The two timing modes are for 19" widescreen support only.

# APPENDIX

## SPECIFICATIONS

LCD Panel	Display size	19"(16:10)	19"(5:4)
	Pixel pitch	0.2835(H) x 0.2835(V)	0.294(H) x 0.294(V)
Input	Video	R,G,B Analog Interface Digital (Dual-Input Model) H/V TTL	
	H-Frequency	31KHz – 80KHz	
	V-Frequency	56 – 75Hz	
Display Colors		16.2M Colors	
Dot Clock		135MHz	
Max. Resolution		1440 x 900	1280 x1024
Plug & Play		VESA DDC2B™	
EPA ENERGY STAR®	ON Mode	≤ 36W	
	OFF Mode	≤ 1W	
Audio maximum power output		1.2W (Amplifier)	
Input Connector		D-Sub 15pin DVI-D 24pin (Dual-Input Model)	
Maximum Screen Size		Hor. :408.24mm Ver. :255.15mm	Hor. :376.32mm Ver. :301.056mm
Power Source		100~240VAC, 50~60HZ	
Environmental Considerations		Operating Temp: 5° to 35°C Storage Temp.: -20° to 60°C Operating Humidity: 10%~85%, non-condensing	
Dimensions (W*D*H)		LM01: 465*193*482 mm LM02: 485*212*402 mm LM03: 449*293*416 mm LM05: 449*180*409 mm Max : 485*293*482 mm	
Weight (GW/NW)		Max. 8 kg / 6.5 kg	
Regulatory Compliance		UL/CUL, BSMI, CCC, CE, CB, PSB, FCC, VCCI, C-TICK NEMKO-GS*, TCO'03*	

The above specification is subject to actual panel specification and is subject to change without prior notice.

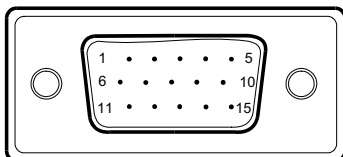
\* Applied models only.

Note :

Maximum Resolution is dependant on the support of your computer system and video card. Please see <http://www.hannspree.com> for more information.

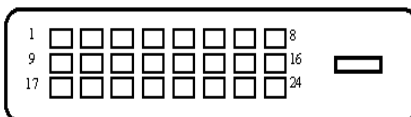
## CONNECTOR PIN ASSIGNMENT

- 15 - Pin Color Display Signal Cable:



PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1.	Red	9.	+5V
2.	Green	10.	Cable Detection
3.	Blue	11.	Ground
4.	Ground	12.	DDC-Serial Data
5.	Ground	13.	H-Sync
6.	R-Ground	14.	V-Sync
7.	G-Ground	15.	DDC-Serial Clock
8.	B-Ground		

- 24 - Pin Color Display Signal Cable: (Dual Input Mode)



PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1.	TMDS Data 2-	13.	No Connection
2.	TMDS Data 2+	14.	+5V Power
3.	TMDS Data 2/4 Shield	15.	Ground(for+5V)
4.	No Connection	16.	Hot Plug Detect
5.	No Connection	17.	TMDS Data 0-
6.	DDC Clock	18.	TMDS Data 0+
7.	DDC Data	19.	TMDS Data 0/5 Shield
8.	NC	20.	No Connection
9.	TMDS Data 1-	21.	No Connection
10.	TMDS Data 1+	22.	TMDS Clock Shield
11.	TMDS Data 1/3 Shield	23.	TMDS Clock +
12.	No Connection	24.	TMDS Clock -

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