

**Wytech**

HL500M

User 's Manual

High Resolution  
TFT LCD Monitor



WOO YOUNG Telecom CO.,LTD.

## 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, which 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 user's authority to operate such equipment.



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# 1

## Before setting up

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This is 15.0 inch TFT-LCD monitor. Before setting up the LCD Monitor, please read this manual to help your understanding of the LCD Monitor.

### Brief Specification of LCD Monitor

Resolution : 15.0 inch XGA (1024 X 768@75Hz)

Color display : 16,777,216 colors

DPMS (Display Power Management Signaling)

OSD (On Screen Display)

Auto Configuration : Hot key


DDC 1/2B : Plug & Play

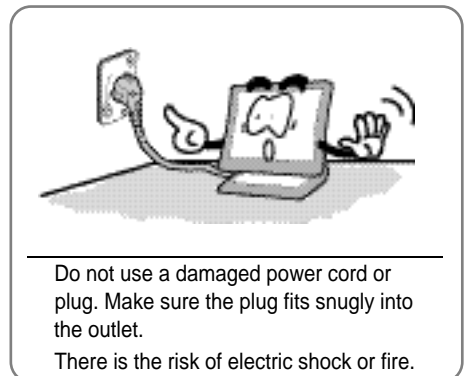
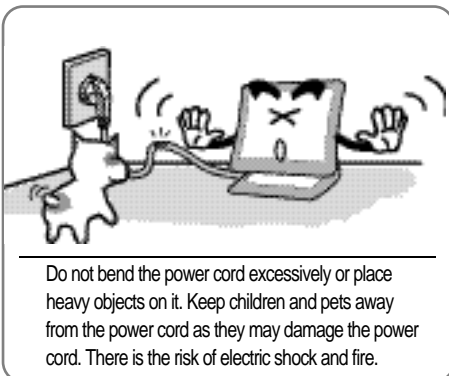
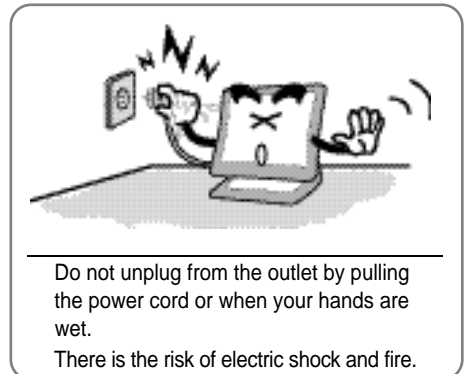
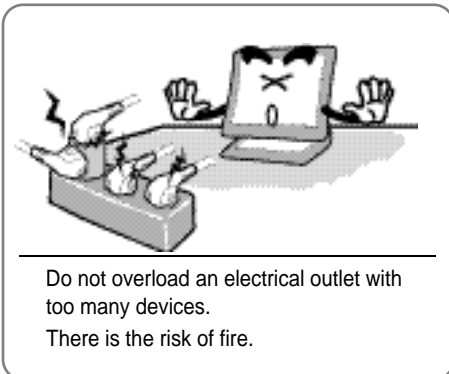
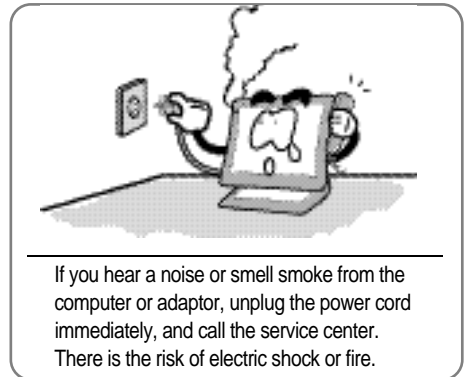
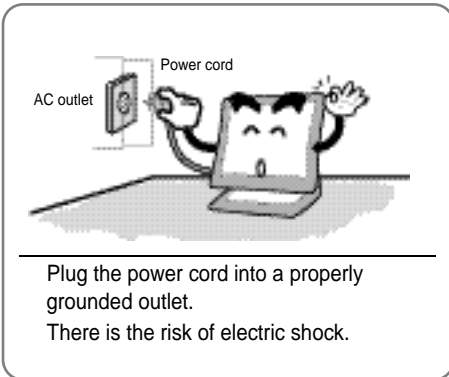


#### Notice

According to PC system, DDC 1/2B may not be supported. If you meet Error message, check your video card which compatibility with DDC. If you want to know more information, please contact our service center.

## Precautions

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

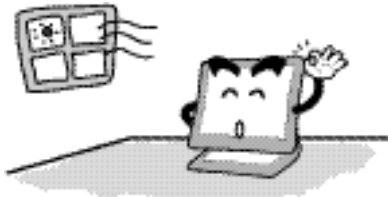




Do not expose the monitor to the direct sun light.



Keep the monitor away from high temperature, humidity, and dust.  
Operating environment: 0 ~ 40 degrees 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.



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## Instruction for Cleaning the Monitor

Make sure the power cord is unplugged.  
Do not spill or pour liquid on the monitor.

### Cleaning the LCD panel

1. Use a clean, soft cloth to wipe off dust from the LCD.
2. If still not clean, wipe the LCD with a clean soft cloth with a small amount of glass cleaner? without alcohol or ammonia.

### Cleaning other parts of the monitor

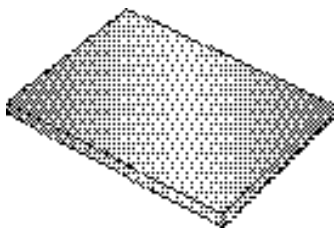
1. Use a clean, soft cloth to wipe off dust from the monitor.
2. If still not clean, wipe the LCD with a clean soft cloth with a small amount of glass cleaner? without alcohol or ammonia.

### Caution

Do not use alcohol or ammonia based cleaning products. Abrasive chemicals, such as alcohol or ammonia, may damage the monitor. The company is not responsible for the damages to the monitor caused by the use of alcohol or ammonia based cleaning products.

# 2

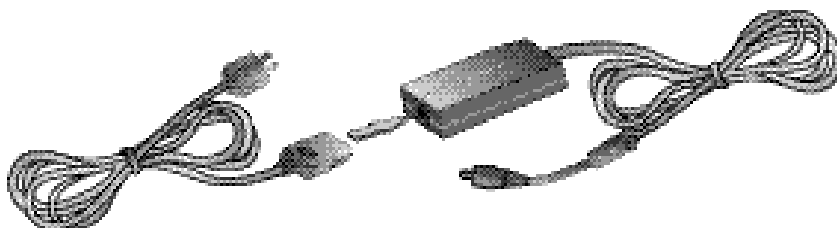
## Items



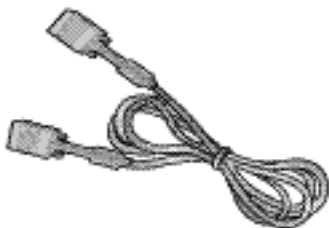
User Manual



LCD Monitor



DC Adapter



15-pin D-Sub Signal Cable



RCA Cable



Audio Cable



S-Video Cable



External TV Box



**Notice**

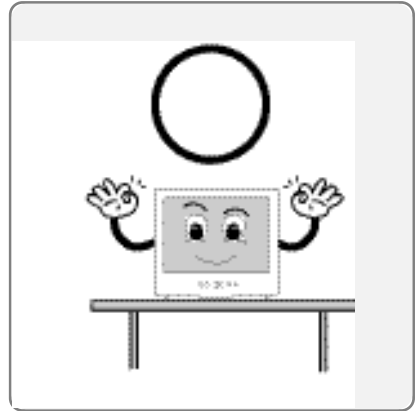
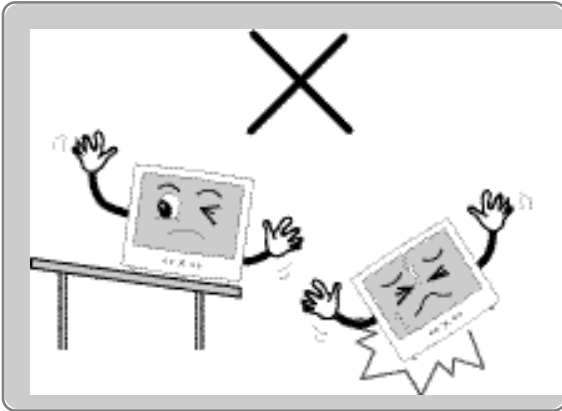
Please make sure the following items are included with your monitor.  
If any items are missing, contact your dealer.

# 3

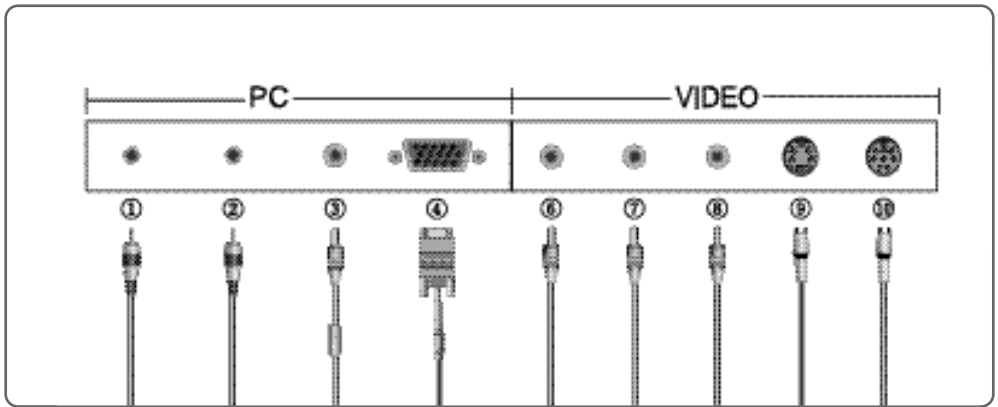
## Setting up the LCD monitor

### Where is a good place to position the monitor?

Place the LCD monitor on a solid and flat surface. If dropped, the screen can be damaged easily.



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



No.	Name	Cable connections	No.	Name	Cable connections
1	PC AUDION IN	Speaker Cable	6	VIDEO1	DVD/VCR Cable (Yellow)
2	SPK OUT	External Speaker Cable	7	AUDIO(R)	Audio output(R) (Red)
3	DC12V	DC Adaper	8	AUDIO(L)	Audio output(L) (White)
4	PC	15-pin D-Sub Signal Cable	9	VIDEO2	S-Videl Cable
			10	Ext	External TV BOX

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## Connecting Your LCD Monitor

### Connecting your PC system

1. Connect the 15-pin D-Sub Signal Cable from PC to No.4.
2. If you use a speaker, connect the Audio Cable from PC to No.1.
3. If you use a headphone and earphone, connect the Headphone Cable from PC to No.2.

### Connecting your AV(DVD, VIDEO, CAMCODER) & TV

1. Connect the DVD/VCR Cable from PC to No.6, No.7 and No.8.
2. Connect the external TV box cable to NO.10.
3. Connect the S-Video cable to NO.9.

## FCC RF INTERFERENCE STATEMENT

### NOTE :

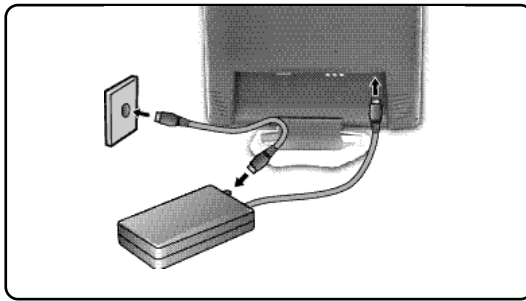
This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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## Connecting for TV

Connect the external TV Box to Monitors Ext. jack

Connect the antenna cable to the external TV Box from wall antenna jack same as the below the picture



## 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.

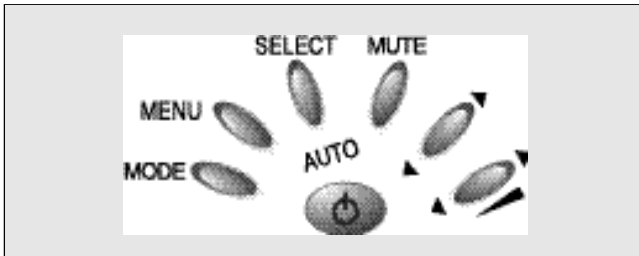
## Warm-up Time

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 20 minutes before making any screen adjustments.

# 4

## Adjusting The Monitor

### The Function Control Buttons



### How to use the function Key.

MODE



You can change the display mode  
(PC Video S-Video TV)

MENU



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

SELECT



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

MUTE



Volume On/Off button.





Move the on-screen highlighted command item to the next one.

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1. You can adjust the volume
  2. Increase / Decrease the current option value.
- 

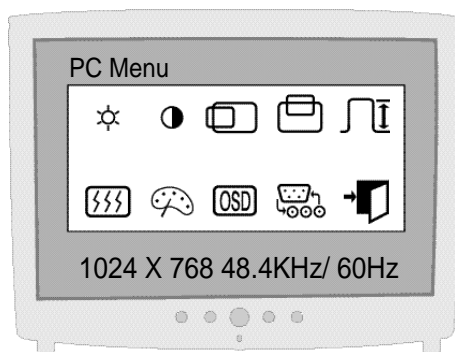


Power On/Off toggle button.

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## Main OSD Menu

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



Brightness : Adjusting Brightness



Contrast : Adjusting Contrast



H-Position : Adjusting Horizontal position



V-Position : Adjusting Vertical position



Clock : Adjusting Clock



Phase : Adjusting Phase



Color : Adjusting Color



OSD function : H, V-Position, Language, off timer



: Select input



Exit Menu

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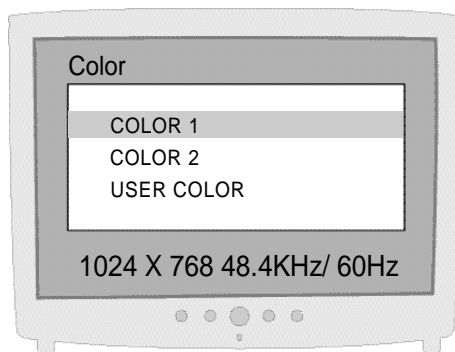
## COLOR

The tone of color can be changed from bluish white to reddish white.

Color1 - Blue type

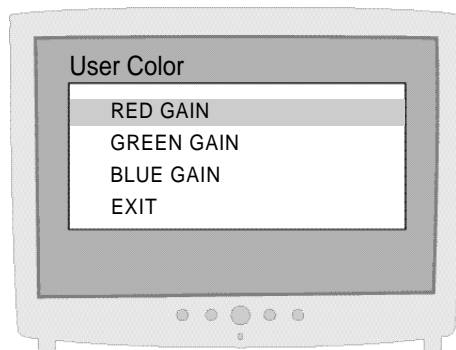
Color2 - Red type

RED, GREEN, BLUE - You can adjust red, green and blue values that you want.



## USER COLOR

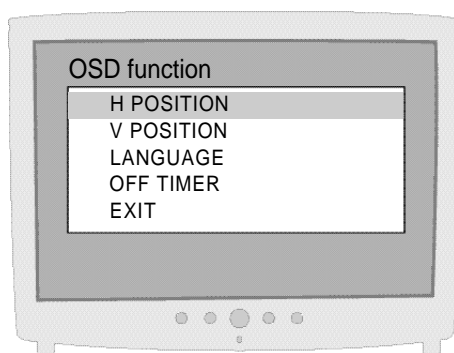
- Red Gain / Green Gain / Blue Gain : You can adjust red, green and blue values that you want



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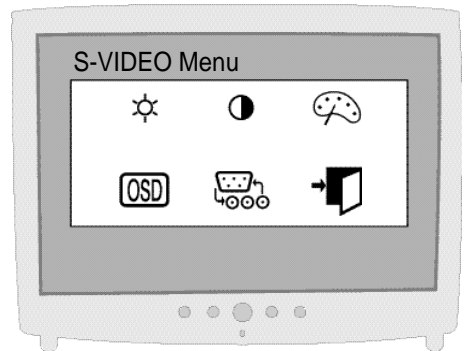
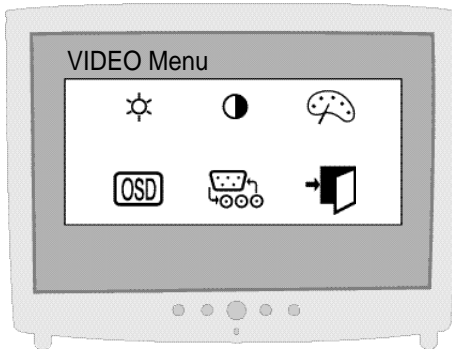
## OSD FUNCTION

- 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.
- Language : Select OSD language. (English, Espanol, Francais, Deutsch, Italiano)
- Off timer : OSD display time.



## VIDEO

- Apply Video function to Monitor.



BRIGHTNESS : Adjusting Brightness



CONTRAST : Adjusting Contrast



COLOR : Adjusting Color



OSD FUNCTION : H, V-Position, Language, off timer



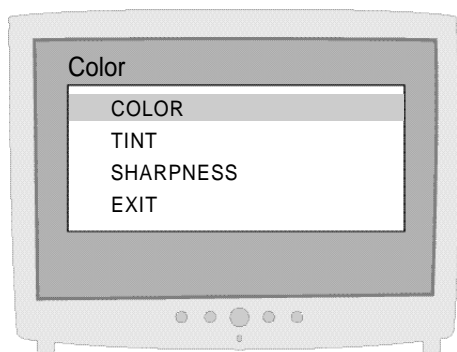
SELECT INPUT



EXIT MENU

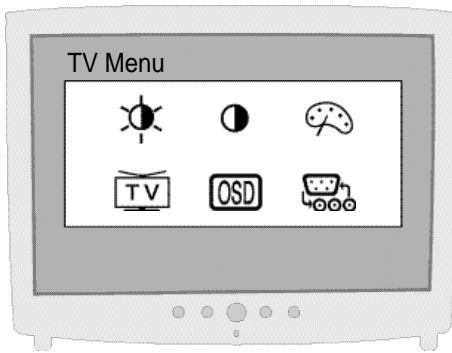
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## Color



- **COLOR** : Adjust color intensity of the VIDEO.
- **TINT** : Adjust a color tone of the VIDEO.
- **SHARPNESS** : Make image of the VIDEO looked sharper.

## TV



Channel: TV

### Channel

Channel	
AIR/CATV	CATV
AUTO. SEARCH	STOP
MANUAL SETTING	15 ADD
FINE ADJUSTM	0

- AIR/CATV : Select AIR or CATV.
- AUTOSEARCH: Search the channel automatically.  
(SELECT button button : select channel  
SELECT button (ADD/DEL))
- MANUAL SETTING : Search the channel manually.
- FINE ADJUSTM : Adjust image quality of the TV.



The mode button can adjust Input Source by hot key.  
In this case, the mode change time spend 2~3sec.

## Appendix A. 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	+/+

The optimal resolution is 1024\*768/60Hz.

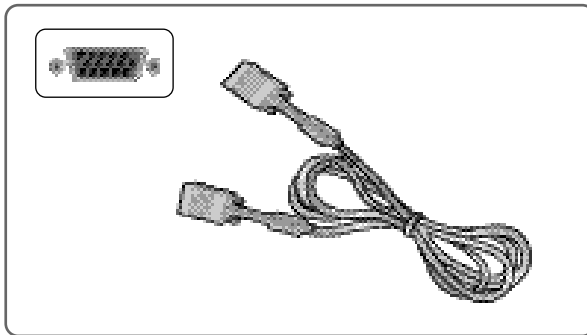


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## Appendix B. 15-pin D-Sub Connector

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



15pin D-Sub Signal Cable

## Appendix C. DPMS Power Saving Mode

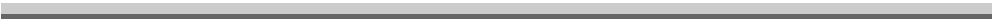
This monitor has a built-in power management system called DPMS Power Saving Mode. This system saves energy by switching your monitor into a low-power mode when it has not been used for a certain period of time. The available modes are “ON”, “Standby”, “Suspend”, and “OFF”.

State	Signal			Power Consumption	Recovery Time	LED Color and Operating status
	H-sync	V-sync	RGB			
ON	Active	Active	Active	Under 30Watt	-	Green
Standby mode	Inactive	Active	Blanked	Less than 5Watt	Within 2Sec	Amber
Suspend mode	Active	Inactive	Blanked			Amber
OFF	Inactive	Inactive	Blanked			Amber

## 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	<ul style="list-style-type: none"> <li>• Check the maximum resolution and the frequency of the video adaptor.</li> <li>• Compare these values with the data in the Display Modes Timing Chart.</li> </ul>
"No signal input" message	<ul style="list-style-type: none"> <li>• Ensure that the signal cable is firmly connected to the PC or video sources.</li> <li>• Ensure that the PC or video sources are turned on.</li> </ul>
Image is not stable and may appear to vibrate	<ul style="list-style-type: none"> <li>• 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</li> <li>• Note : Your monitor supports multiscan display functions within the following frequency domain:</li> </ul>
The image is too light or too dark	<ul style="list-style-type: none"> <li>• Adjust the Brightness and Contrast.</li> <li>• Refer to the Brightness/Contrast</li> </ul>
The image color is not good	<ul style="list-style-type: none"> <li>• Adjust the Color</li> <li>• Refer to the Color</li> </ul>
Image is not centered on the screen	<ul style="list-style-type: none"> <li>• Executes Auto Configuration.</li> </ul>
Screen is blank and power indicator light is steady amber or blinks every 0.5 or 1 seconds	<ul style="list-style-type: none"> <li>• The monitor is using its power management system.</li> <li>• Move the computer's mouse or press a key on the keyboard.</li> </ul>



## Appendix A. Specifications

Panel	Type	TFT active matrix
	Size	15 inch
		304.1mm × 228.1mm
	Pixel Pitch	0.297mm × 0.297mm
Display Color	8-bit (16,777,216 colors)	
Display Resolution	Basic	1024 × 768 @60Hz
	Maximum	1024 × 768 @75Hz
Frequency	Horizontal	31.5~60KHz
	Vertical	56~75Hz
Sync Signal		TTL, P. or N.
Connectors		D-Sub 15pin connector
		Speaker Input / Headphone Output (Audio Cable)
		Audio Cable
		RCA Cable
		S-Video Cable
External TV Box		
Tilting Degree (U/D)		Degree
Plug&Play		VESA DDC 1/2B
Power	Input	90~265VAC
	Output	Adapter DC 12V, 3A
	Consumption	Under 30W
	Standby mode	5W less
Power Management		VESA DPMS
Environmental Consideration	Temperature	0~40 °C (32 °F~104 °F)
	Humidity	90% less
Dimensions	Outside	435mm(W) × 425mm(H) × 241mm(D)
Weight	Monitor	4.0kg
	Carton	2.5kg

The specification of this monitor is subject to be changed without notice to improve performance.



WOO YOUNG Telecom CO.,LTD.

<http://www.wyt.co.kr>

P/N : 97E950023