APPENDIX G :

USER'S MANUAL

LG

MODEL
StudioWorks 500G/500E

Please read this manual carefully before operating your set.
Retain it for future reference.
Record model number and serial number of the set.
See the label attached on the back cover and quote this
information to your dealer when you require service.

Important Precaution

This unit has been engineered and manufactured to ensure your personal
safety,however improper use may result in potential electrical shock or fire
hazards.In order to allow the proper operation of all safeguards incorporated in this
monitor,observe the following basic rules for its installation,use and servicing.

On Safety
Use only the power cord supplied with the unit.In case you use another power
cord,make sure that it is certified by the applicable national standards if not being
provided by the supplier.If the power cable is faulty in any way,please contact the
manufacturer or the nearest authorized repair service provider for a replacement.

The power supply cord is used as the main disconnect device.Ensure that the
socket-outlet is easily accessible after installation.

Operate the monitor only from a power source indicated in the specifications of
this manual or listed on the monitor.If you are not sure what type of power supply
you have in your home,consult with your dealer.

Overloaded AC outlets and extension cords are dangerous.So are frayed power
cords and broken plugs.They may result in a shock or fire hazard.Call your service
technician for replacement.

Do not open the monitor.
• There are no user serviceable components inside.
• There are dangerous high voltage inside,even when the power is OFF.
• Contact your dealer if the monitor is not operating properly.

To avoid personal injury:
• Do not place the monitor on a sloping shelf unless properly secured.
• Use only a stand recommended by the manufacturer.
• Do not try to roll a stand with small casters across thresholds or deep pile carpets.

To prevent fire or hazards:
• Always turn the monitor off if you leave the room for more than a short period of
  time.Never leave the monitor on when leaving the house.
• Keep children from dropping or pushing objects into the monitor's cabinet
  openings.Some internal parts carry hazardous voltage.
• Do not add accessories that have not been designed for this monitor.
• During a lightening storm or when the monitor is not be left unattended for an
  extended period of time,unplug it from the wall outlet.

Connecting the Monitor

• Before setting up the monitor,ensure that the power is turned off to the monitor,
  computer system,and other attached devices.
• Carefully set the monitor face-down with the underside facing you.

Connecting the Tilt/Swivel stand
1. Align the hooks on the tilt/swivel stand with the matching slots in the base
   of the monitor.
2. Insert the hooks into slots.
3. Slide the tilt/swivel stand toward the front of the monitor until the latches click
   into the locked position.

NOTE
•This illustration depicts the general model of connection.Your monitor may differ
  from the item shown in the picture.

Control Panel Functions
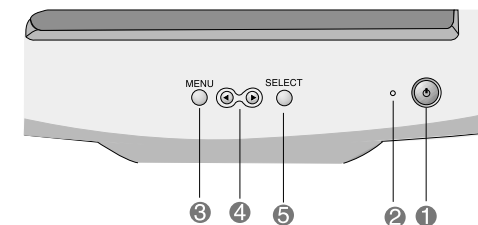
Control		Function
①	Power Button	Use this button to turn the monitor on or off.
②	Power(DPMS) Indicator	This indicator lights up green when the monitor operates normally.If the monitor is in DPM(Energy Saving)mode,this indicator color changes to amber.
③	MENU Button	Use this button to enter or exit the on screen display.
④	▲▼/◀▶Buttons	Use these buttons to choose or adjust items in the On Screen Display.
⑤	SELECT Button	Use this button to enter a selection in the On Screen Display.

Regulatory Information

FCC Compliance Statement
This equipment has been tested and found to comply within the limits of 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,theres 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 on and off), the user is encouraged to try to correct the
interference by using one or more of the following measures.
• Reorient 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 radio/TV technician for help.

Caution:Changes or modifications not expressly approved by the party responsible for
compliance could avoid the user's(or your) authority to operate the equipement.Only peripherals
(digital input/output devices,terminals,printers,etc.) certified to comply with Class B limits may be
attached to this monitor.Operation with non-certified peripherals is likely to result in interference
to radio and TV reception.
Only shielded signal cables may be used with this system.

The regulations are applied only to the products with the ID LABEL
indicating specific requirements.

Canadian DOC Notice
This Class B digital apparatus meets all requirements of the Canadian Interference-Causing
Equipment Regulations.Cet appareil numérique de la class B respecte toutes les exigences du
Réglement sur le matériel brouilleur du Canada.

The regulations are applied only to the products with the ID LABEL
indicating specific requirements.

CE Conformity Notice(for Europe)
Products with the "CE" Marking comply with EMC Directive (89/336/EEC) and LOW VOLTAGE
Directive(73/23/EEC) is issued by the Commission of the European Community.
Compliance with these directives implies conformity to the following European Norms:
• EN 55022   ;Radio Frequency Interference
• EN 50082-1:1992   ;Electromagnetic Immunity
• EN 60555-2   ;Power Line Harmonics
• EN 60555-3   ;Voltage Fluctuations
• EN 60950   ;Product Safety

The regulations are applied only to the products with the ID LABEL
indicating specific requirements.

Low Radiation Compliance(MPR II)
This monitor meets one of the strictest guidelines available today for low radiation
emissions,offering the user extra shielding and antistatics screen coating.These guidelines,set
forth by a government agency in Sweden,limit the amount of emission allowed in the Extremely
Low Frequency(ELF) and Very Low Frequency (VLF) electromagnetic range.

Important Precautions

On Installation
Do not allow anything to rest upon or roll over the power cord,and do not place the
monitor where the power cord is subject to damage.

Do not use this monitor near water such as near a bathtub,washbowl,kitchen
sink,laundry tub,in a wet basement,or near a swimming pool.
Monitors are provided with ventilation openings in the cabinet to allow the release
of heat generated during operation.If these openings are blocked,built-up heat can
cause failure which may result in a fire hazard.Therefore,NEVER:
• Block the bottom ventilation slots by placing the monitor on a bed,sofa,rug,etc.
• Place the monitor in a built-in enclosure unless proper ventilation is provided.
• Cover the openings with cloth or other material.
• Place the monitor near or over a radiator or heat source.

On Cleaning
• Unplug the monitor before cleaning the face of the monitor screen.
• Use a slightly damp (not wet) cloth.Do not use an aerosol directly on the monitor
  screen because overspray may cause electrical shock.

On Repacking
• Do not throw away the carton and packing material.They make an ideal container
  in which to transport the unit.When shipping the unit to another location,repack it
  in its original material.

Service
Unplug the monitor from the wall outlet and refer servicing to qualified service
personnel when:
• The power cord or plug is damaged or frayed.
• Liquid has been exposed to rain or water.
• The monitor does not operate normally following the operating instructions.Adjust
  only those controls that are covered in the operating instructions.An improper
  adjustment of other controls may result in damage and often requires extensive
  work by a qualified technician to restore the monitor to normal operation.
• The monitor has been dropped or the cabinet has been damaged.
• The monitor exhibits a distinct change in performance.
• Snapping or popping from the monitor is continuous or frequent while the monitor
  is operating.It is normal for some monitors to make occasional sounds when
  being turned on or off,or when changing video modes.
Do not attempt to service the monitor yourself,as opening or removing covers may
expose you to dangerous voltage or other hazards.Refer all servicing to qualified
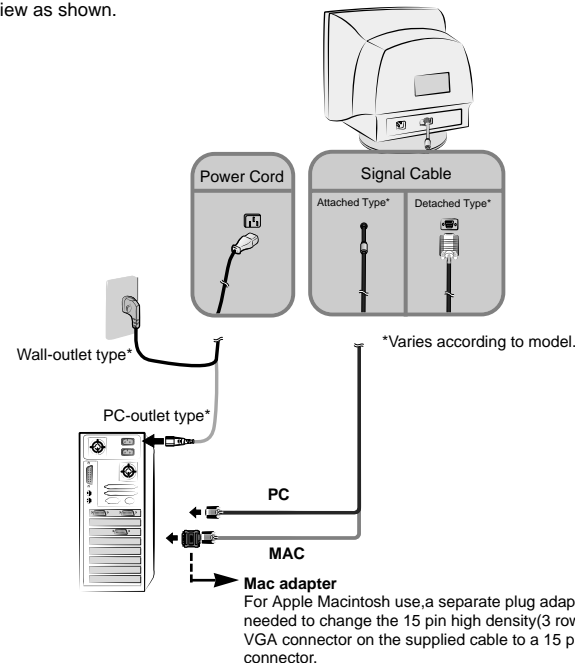service personnel.

Connecting the Monitor

Using the Computer

1.Connecting the signal cable.When mated,tighten the thumbscrew to secure
  the connection.
2.Connect the power cord into a properly power outlet that is easily accessible
  and close to the monitor.

NOTE
• This is a simplified representation of the rear view.
• This rear view represents a general model;your monitor may differ from the
  view as shown.

Power Cord

Signal Cable
Attached Type*   Detached Type*

Wall-outlet type*

*Varies according to model.

PC-outlet type*

PC

MAC

Mac adapter
For Apple Macintosh use,a separate plug adapter is
needed to change the 15 pin high density(3 row) D-sub
VGA connector on the supplied cable to a 15 pin 2 row
connector.

On Screen Display(OSD) Control Adjustment

Screen Adjustment

Making adjustments to the image size,position and operating parameters of the
monitor is quick and easy with the On Screen Display Control system.A short
example is quick and easy given below to familirize you with the use of the
controls.The following section is a outline of the available adjustments and
selections you can make using the OSD.

NOTE
• Allow the monitor to stabilize for at least 30 minutes before making image adjustments.

To make adjustments in the On Screen Display,follow these steps:

MENU ⟶ ◀▶ ⟶ SELECT ⟶ ◀▶ ⟶SELECT ⟶ MENU

1. Press the MENU Button,then the main menu of the OSD appears.
2. To access a control,use the ◀ or▶ Buttons.When the icon you want becomes
   highlighted,press the SELECT Button.
3. Use the ◀ ▶ Buttons to adjust the item to the desired level.
4. Accept the changes by pressing the SELECT Button.
5. Exit the OSD by Pressing the MENU Button.

The following table indicates all the On Screen Display controls,adjustments,and setting menus.

Icon	Main menu		Icon	Main menu	
◑	Contrast	●		H Corner*	
☼	Brightness	●	‹‹	H Moire	●
▢	H Position	●	∨	V Moire	●
↔	H Size	●	◕	COLOR 9300	●
▭	V Position	●		6500	●
↕	V Size	●		K	●
▱	Tilt*	●		R B	●
▢	Pincushion	●	↺	Recall	●
▯	Pin Balance	●	✕	Reset	●
▱	Parallelogram	●	◉	Language	●
▱	Trapezoid	●	OSD	OSD Time	●
			▣	Video Level	●
● :Adjustable			⌂	Degauss	●
			ⓘ	Information	●
			EXIT	Exit*	●

NOTE
• The order of icons may differ depending on the model(A7~A10).
• *The function is available for designated models only.

```
1024 x 768 / 60Hz
H Moire
```
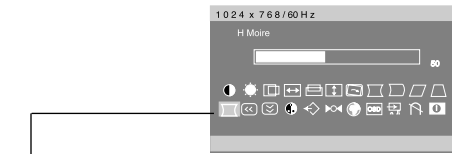
Icon	Sub menu	Description
H CORNER*		To correct an irregular distortion of the displayed image.
H MOIRE ‹‹ V MOIRE ∨		This item allows you to reduce the degree of moire.(Moire is caused by interference Horizontal Scan Line with the periodical dot screen).It is normally OFF(H:0/V:0) Moire adjustments may shake slightly while the moire reduction function is on.
COLOR ◕	9300	Slightly bluish white.
	6500	Slightly reddish white.
	K	Select the screen temperature which you refer among reddish or bluish or any color in between.
	R B	Set your own color levels.
RECALL ↻		You can use this function to reload the modified parameters for screen display operation,as specified by the user after purchase:

Check the following before calling for service.

No image appears

● Is the power cord of the monitor connected?	• Check and see if the power cord is connected properly to the power outlet.
● Is the power indicator light on?	• Press the power button.
● Is the power on and the power indicator green?	• Adjust the brightness and the contrast.
● Is the power indicator amber?	• If the monitor is in power saving mode,trying moving the mouse or pressing any key on the keyboard to bring up the screen.
● Do you see an "OUT OF FREQUENCY" message on the screen?	• This message appears when the signal from the PC (video card) is out of horizontal or vertical frequency range of the monitor.See the'Specification' section of this manual and configure your monitor again.
● Do you see a"SELF DIAGNOSTICS" message on the screen?	• This message appears when the signal cable between your PC and your monitor is not connected.Check the signal cable and try again.

The screen is flickering

● Is the vertical frequency less than 70Hz or is your monitor set to the interlaced mode?	• Set the vertical frequency to 72Hz or higher,and consult the video card user manual for instruction on converting to a non-interlaced mode. (You can se t this option under the Display icon of the Control Panel.)
● Do you have any magnetic material such as adapter,or high-voltage line near to your monitor?	• Remove magnetic sources,such as power adapetors,speakers,or high-voltage lines,away from the monitor.
● Do you hear a "~ding" sound while the monitor is flickering?	• Use the normal degaussing function.The function clears the screen and reduces any screen blur that may occur due to the surrounding magnetic field.The screen may flicker for about 5 sconds,accompanied by a "~ding" sound.

Picture Tube	15 inches(14.0 inches viewable) 90 degree deflection 0.28mm dot pitch AGAS(Anti-Glare Anti-Statics) coating	
Sync Input	Horizontal Freq.	30-54kHz(Automatic)
	Vertical Freq.	50-120Hz(Automatic)
	Input Form	Separate TTL,Positive/Negative
	Signal Input	15 pin D-Sub Connector
Video Input	Input Form	Separate,RGB Analog,0.7Vp-p/75ohm,Positive
	Resolution(max)	1024 x 768 @60Hz
Plug&Play	DDC 2B	
Power Consumption	Normal	<63W
	Stand-by/Suspend	<15W
	Power off	<5W
Dimensions &Weight(with tilt/swivel stand)	Width	35.6cm/14.0 inches
	Height	37.1cm/14.6inches
	Depth	39.5cm/15.5inches
	Net	11.7kg(25.79lbs)
Power Input	AC 100-240V 50/60Hz 1.5A	
Environmental Conditions	Operating Conditions Temperature	0°C to 40°C
	Humidity	10% to 90% non-Condensing
	Storage Conditions Temperature	-20°C to 60°C
	Humidity	5% to 90% non-Condensing
Tilt/Swivel Stand	Detached	
Signal cable	Attached	
Power cord	Detached	
Regulations	Non MPRII(500G) MPRII(500E)	

NOTE
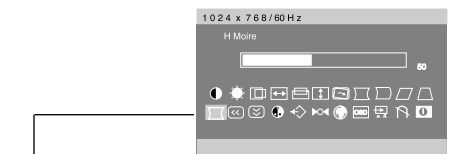• Information in this document is subject to change without notice.

You were introduced to the procedure of selecting and adjusting an item using the OSD system.Listed below are the icons,icon names,and icon descriptions of all items shown on the menu.

```
1024 x 768 / 60Hz
Contrast
```
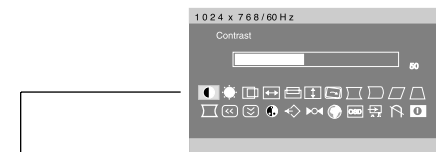
Icon	Sub menu	Description
CONTRAST ◑		To adjust the contrast of the screen.
BRIGHTNESS ☼		To adjust the brightness of the screen.
H POSITION ▢		To move image left and right.
H SIZE ↔		To adjust image width.
V POSITION ▭		To move image up and down.
V SIZE ↕		To adjust image height.
TILT* ▱		To correct image rotation.
PINCUSHION ▢		To correct a concave or convex bowing of the image.
PIN BALANCE ▯		To correct the balance of both sides bowing.
PARALLELOGRAM ▱		To corresctly adjust the skew of the image.
TRAPZOID ▱		To correct geometric distortion.

```
1024 x 768 / 60Hz
H Moire
```

Icon	Sub menu	Description
RESET ✕	• OK • CANCEL	Return to all factory default settings except "LANGUAGE":Brightness,Contrast,Tilt,Color9300, Video Level,OSD Time,Moire(These reset options may differ depending on the mode selected;Preset,User,or New). If you don't want to reset the monitor,use the ◀ ▶ button to select CANCEL and then press the SELECT button.
LANGUAGE ◉		To choose the language in which the control names are displayed. OSD Menus are available in 11 language :English, German,French,Spannish,Italian,Swedish,Finnish, Portuguese,Korean,Chinese and Russian.
OSD TIME OSD	• 5 • 10 • 20 • 30 • 60	Set the OSD time,i.e the length of time a menu will remain on-screen before it shuts off automatically.Adjust the time to 5,10,20,30,0r 60 seconds.
VIDEO LEVEL ▣		This item is used to select the monitor's input signal level.The normal level used for most PCs is 0.7V.If the screen becomes suddenly washed-out or blurred,please select 1.0V and try again.
DEGAUSS ⌂		To manually demagnetize the screen to avoid showing incorrect images or colors.
INFORMATION ⓘ	•PRESET MODE •USER MODE	To inform user of preset and user mode data.
EXIT* EXIT		To exit from current OSD menu.

The screen color is not normal.

● Do you see basic discoloration(16 colors)?	• Set color depth to 256 colors or higher.Use ' Control Panel'→'Display'→'Settings'→'Color Palette'.
● Is the screen color unstable or monochrome?	• Check the connection of the signal cable.Or put out the video card of the PC and insert it back.
● Do you hear a "~ding" sound while the monitor is flickering?	• This is due to a small amount of foreign or abnormally forescent material that became fastend on the mask during manufacturing.It will not affect product performance.
● Do you see a partial blurring on the screen?	• This happens due to interference from surrounding magnetic fields,as created when speakers,steel structures,or high-voltage lines are placed near the monitor.Remove any such materials from the immediate vicinity and use the DEGAUSS icon on the screen adjustment menu to fix the screen.

I see an after-image on the screen

● Do you see the after-image even when you turn off the monitor?	• A premature aging of the monitor pixels may cause the prolonged display of a single image on the screen.Be sure to use a screen saver to maximize the service life of the monitor.

I see waves on the screen

● Do you see the wave directly on the screen?	• This occurs in inverse proportion to the screen focus, which can be caused by a particular frequency or video card.Brighten the screen and use the 'MOIRE' icon on the screen adjustment menu to adjust the screen.

Preset Modes(Resolution)

	Display Modes(Resolution)		Horizontal Freq.(kHz)	Vertical Freq.(Hz)
1	VESA	640 X 480	37.50	75
2	VESA	800 X 600	31.47	60
3	VESA	800 x 600	53.68	85
4	VESA	1024 x 768	48.16	60

DDC(Display Data Channel)
DDC is a communication channel over which the monitor automatically inform the host system(PC)about its capability.

DDC protocol
1 DDC1/DDC2B
   An uni-directional communication channel.
2 DDC 2AB/DDC2B+/DDC2Bi
   A bi-directional communication channel.
Note
• PC must support DDC functions to do this.

Energy Saving Design
This monitor complies with the EPA's Energy Star program,which is a program designed to have manufacturers of computer equipment build circuitry into their products to reduce power consumption during time of non-use.

When this monitor is used with a Green or EPA Energy Star PC,or a PC with a screen blanking software following the VESA Display Power Management Signalling (DPMS) protocol,this monitor can conserve significant energy by reducing power consumption during periods of non-use.
There are 2 signal lines,4 modes of operation:Normal,Standby,Suspend and off.

Mode	Horizontal Sync.	Verical Sync.	LED Color
Normal	On	On	Green
Standby	Off	On	Amber
Suspend	On	Off	Amber
Off	Off	Off	Amber

When you awaken your PC by hitting a key or moving the mouse,the monitor will also awaken to its normal operating mode,indicated by the green Power LED light.
Note
The energy saving Design for monitor only work when connected to computers that have energy saving features.