



# LCD Monitor User Manual

E719SDA/E719SD

LED Backlight



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# Safety

## National Conventions

The following subsections describe notational conventions used in this document.

### Notes, Cautions, and Warnings

Throughout this guide, blocks of text may be accompanied by an icon and printed in bold type or in italic type. These blocks are notes, cautions, and warnings, and they are used as follows:



**NOTE:** A NOTE indicates important information that helps you make better use of your computer system.



**CAUTION:** A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.



**WARNING:** A WARNING indicates the potential for bodily harm and tells you how to avoid the problem. Some warnings may appear in alternate formats and may be unaccompanied by an icon. In such cases, the specific presentation of the warning is mandated by regulatory authority.

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## Power

 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.

 The monitor is equipped with a three-pronged grounded plug, a plug with a third (grounding) pin. This plug will fit only into a grounded power outlet as a safety feature. If your outlet does not accommodate the three-wire plug, have an electrician install the correct outlet, or use an adapter to ground the appliance safely. Do not defeat the safety purpose of the grounded plug.

 Unplug the unit during a lightning storm or when it will not be used for long periods 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 or electric shock.

 To ensure satisfactory operation, use the monitor only with UL listed computers which have appropriate configured receptacles marked between 100 - 240V ~, Min. 5A

 The wall socket shall be installed near the equipment and shall be easily accessible.

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## Installation

**!** Do not place the monitor on an unstable cart, stand, tripod, bracket, or table. If the monitor falls, it can injure a person and cause serious damage to this product. Use only a cart, stand, tripod, bracket, or table recommended by the manufacturer or sold with this product. Follow the manufacturer's instructions when installing the product and use mounting accessories recommended by the manufacturer. A product and cart combination should be moved with care.

**!** Never push any object into the slot on the monitor cabinet. It could damage circuit parts causing a fire or electric shock. Never spill liquids on the monitor.

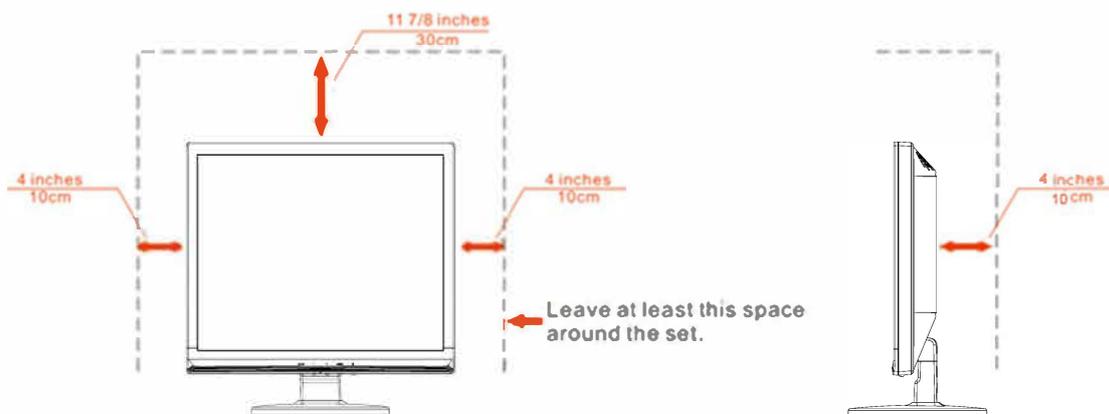
**!** Do not place the front of the product on the floor.

**!** If you mount the monitor on a wall or shelf, use a mounting kit approved by the manufacturer and follow the kit instructions.

**!** Leave some space around the monitor as shown below. Otherwise, air-circulation may be inadequate hence overheating may cause a fire or damage to the monitor.

See below the recommended ventilation areas around the monitor when the monitor is installed on the stand:

### Installed with stand



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## Cleaning

 Clean the cabinet regularly with cloth. You can use soft-detergent to wipe out the stain, instead of strong-detergent which will cauterize the product cabinet.

 When cleaning, make sure no detergent is leaked into the product. The cleaning cloth should not be too rough as it will scratch the screen surface.

 Please disconnect the power cord before cleaning the product.



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## Other

 If the product is emitting a strange smell, sound or smoke, disconnect the power plug IMMEDIATELY and contact a Service Center.

 Make sure that the ventilating openings are not blocked by a table or curtain.

 Do not engage the LCD monitor in severe vibration or high impact conditions during operation.

 Do not knock or drop the monitor during operation or transportation.

 For display with glossy bezel the user should consider the placement of the display as the bezel may cause disturbing reflections from surrounding light and bright surfaces.

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# Setup

## Contents of the box



Monitor



CD Manual



Stand



Monitor Base



Power Cable



Analog Cable



DVI Cable



Audio Cable

\* Not all signal cables (Analog, DVI, Audio cables) will be provided for all countries and regions. Please check with the local dealer or AOC branch office for confirmation.

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## Setup Stand & Base

Please setup or remove the base following the steps as below.

Setup:



Remove:



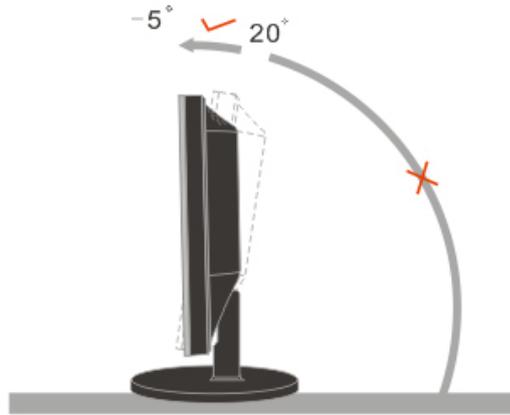
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## Adjusting Viewing Angle

For optimal viewing, it is recommended to look at the full face of the monitor, and then adjust the monitor's angle to your own preference.

Hold the stand so you will not topple the monitor when you change the monitor's angle.

You are able to adjust the monitor's angle as below.



### NOTE:

Do not touch the LCD screen when you change the angle. It may cause damage or break the LCD screen.

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## Connecting the Monitor

Cable Connections In Back of Monitor and Computer:



E719SDA



E719SD

1. Power
2. Audio
3. DVI
4. D-SUB

Turn off your computer before performing the procedure below.

1. Connect the power cable to the AC port on the back of the monitor.
2. 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.
3. (Optional – Requires a video card with DVI port) - Connect one end of the 24-pin DVI cable to the back of the monitor and connect the other end to the computer's DVI port.
4. Connect the audio cable to audio in port on the back of the monitor
5. Turn on your monitor and computer.

If your monitor displays an image, installation is complete. If it does not display an image, please refer Troubleshooting.

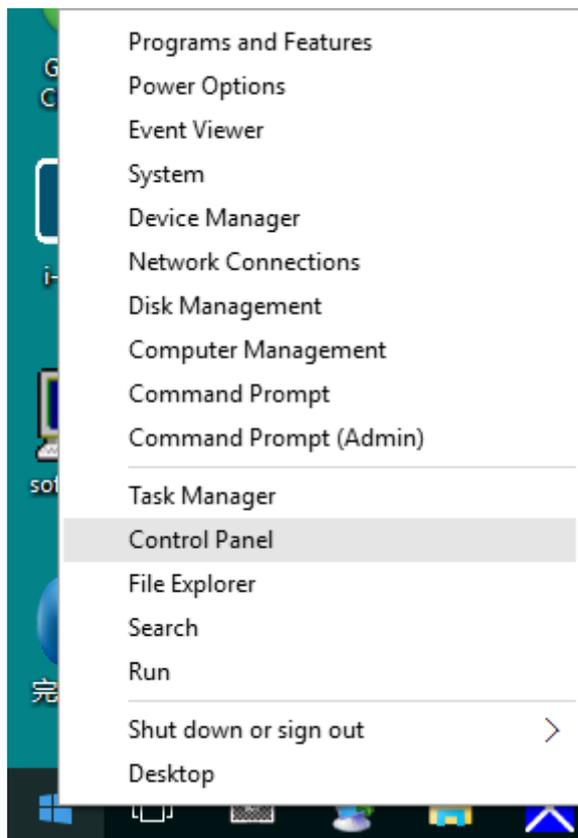
# Adjusting

## Setting Optimal Resolution

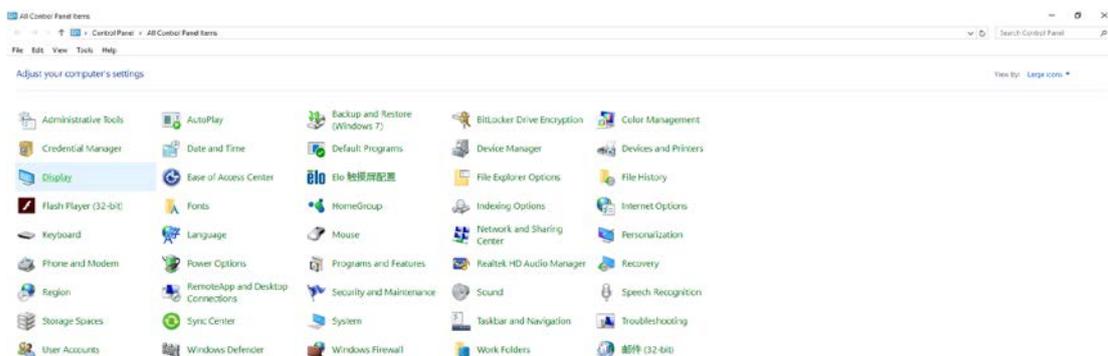
### Windows 10

For Windows 10:

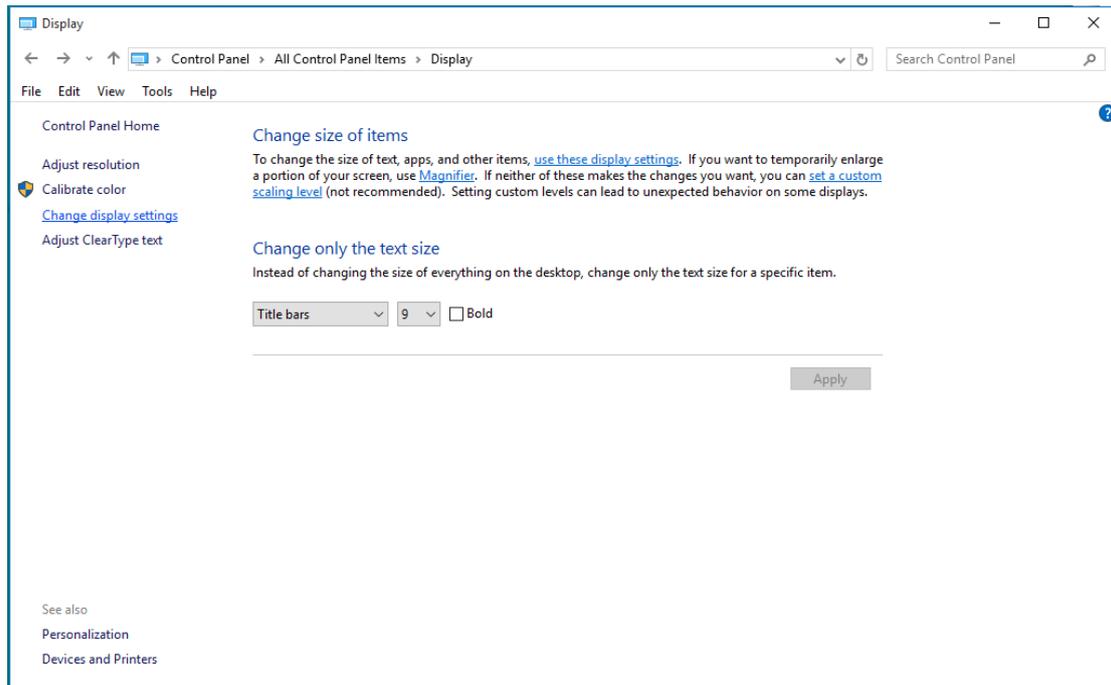
- Right click **START**.
- Click "**CONTROL PANEL**".



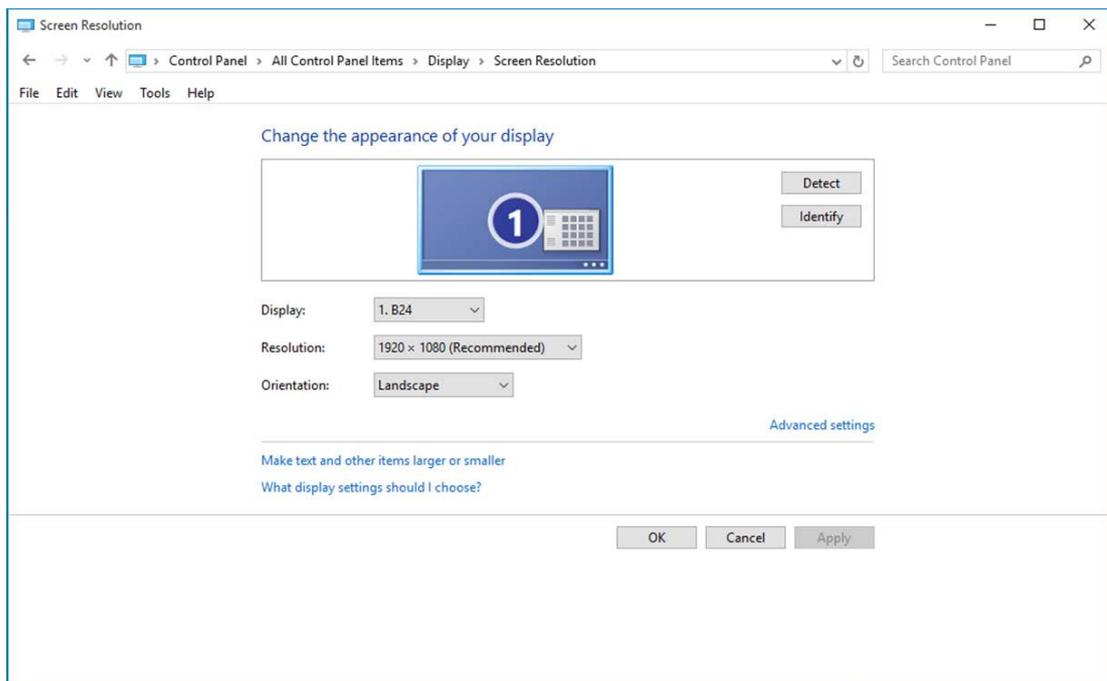
- Click "**DISPLAY**".



- Click on the **"Change display settings"** button.

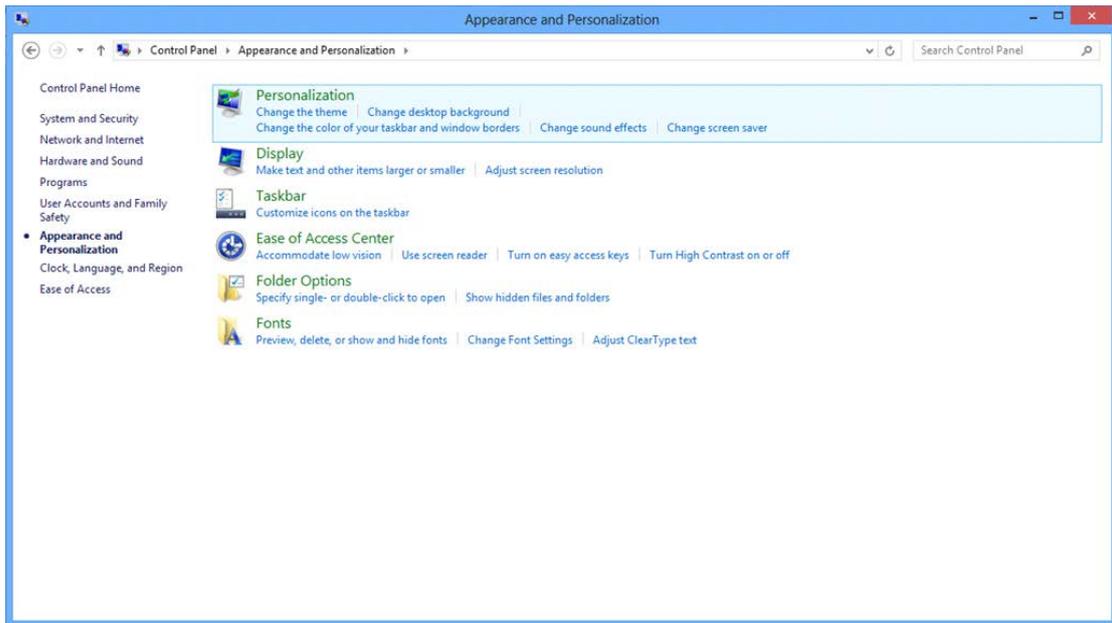


- Set the resolution **SLIDE-BAR** to Optimal preset resolution.

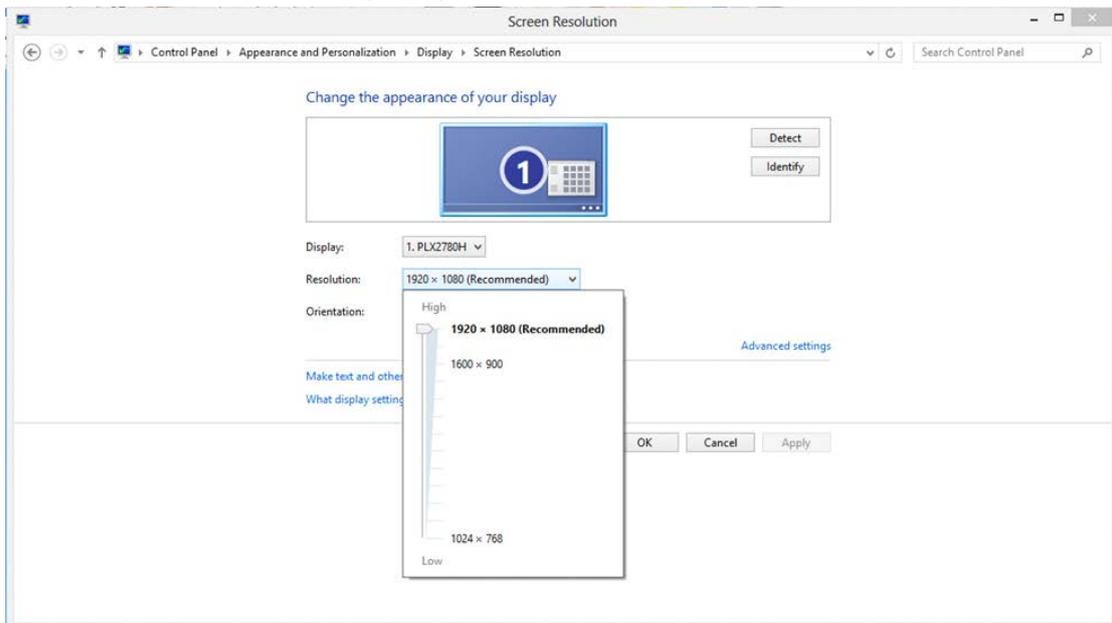




- Click "**DISPLAY**".



- Set the resolution **SLIDE-BAR** to Optimal preset resolution

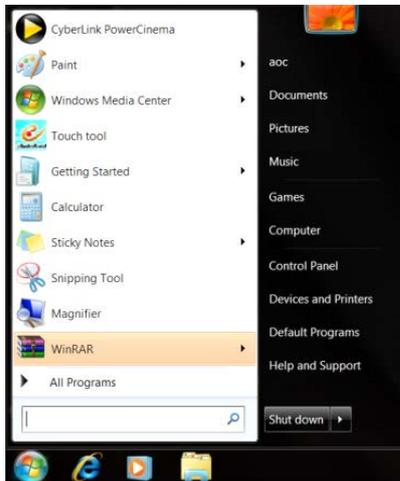


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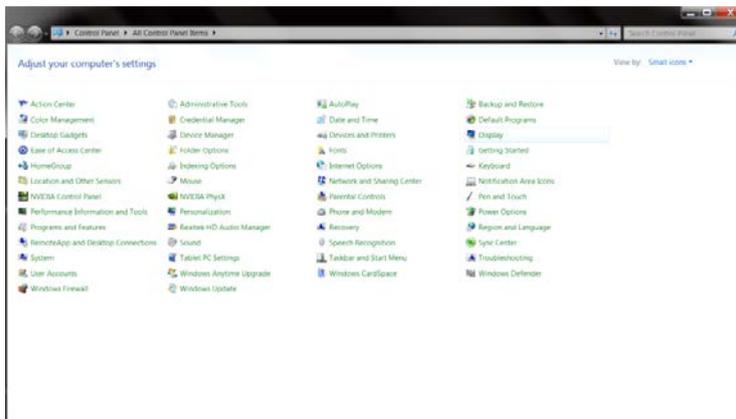
## Windows 7

### For Windows 7:

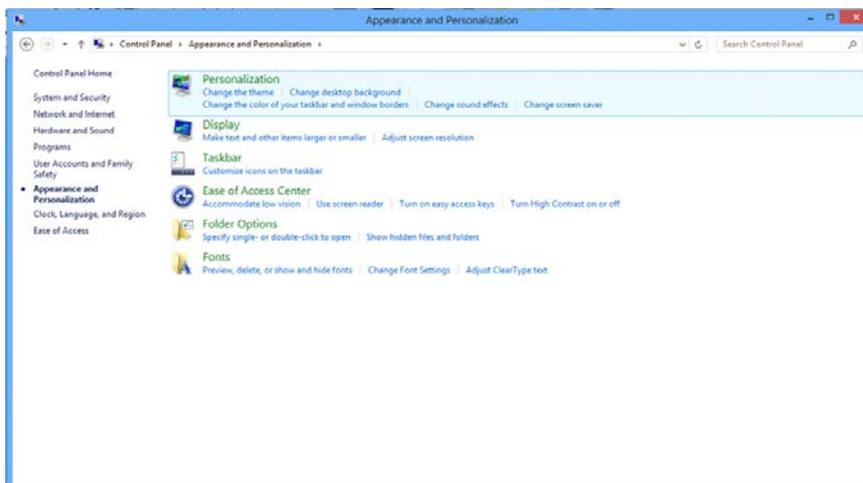
- Click **START**.
- Click **"CONTROL PANEL"**.



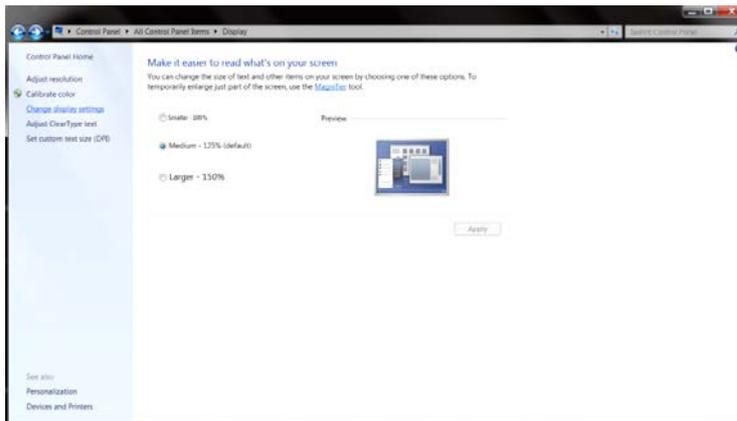
- Click **"Appearance"**.



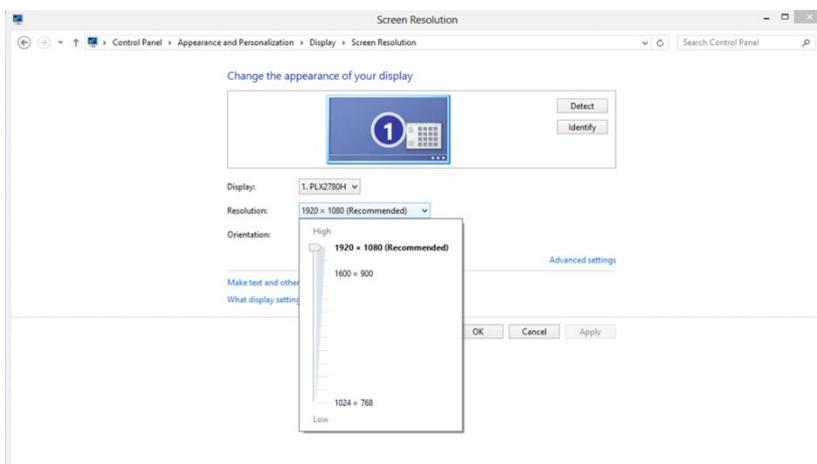
- Click **"DISPLAY"**.



- Click on the **"Change display settings"** button.

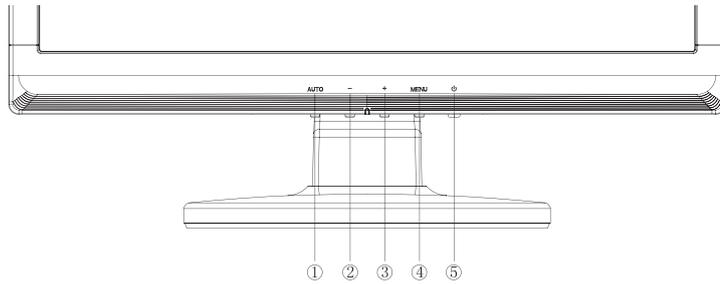


- Set the resolution **SLIDE-BAR** to Optimal preset resolution



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# Hotkeys



## E719SDA

1	Source/ Auto/ Exit
2	Clear Vision / -
3	Volume / +
4	Menu/Enter
5	Power

## E719SD

1	Source/ Auto/ Exit
2	Clear Vision / -
3	ECO / +
4	Menu/Enter
5	Power

### Power

Press the Power button to turn on/off the monitor.

### Volume / +

When there is no OSD, press Volume adjust volume.

### Eco / +

Press the Eco key continuously to select the Eco mode of brightness when there is no OSD.

### Auto / Exit

When there is no OSD, press Auto / Exit button continuously about 3 second to do auto configure.

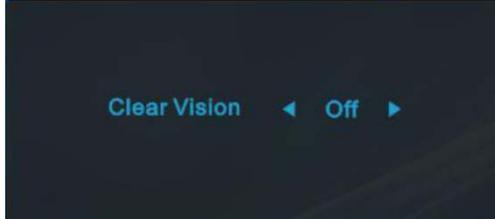
### Source hot key

When the OSD is closed, press Source button will be Source hot key function. Press Source button to select the input source showed in the message bar , press Menu/Enter button to change to the source selected.

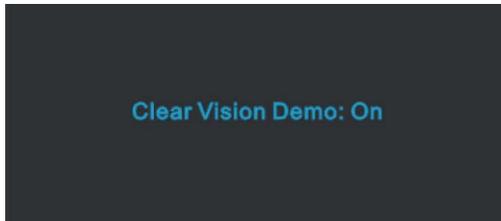
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## Clear Vision

1. When there is no OSD, Press the “ - ” button to activate Clear Vision.
2. Use the “ - ” or “ + ” buttons to select between weak, medium, strong, or off settings. Default setting is always “off”.



3. Press and hold “ - ” button for 5 seconds to activate the Clear Vision Demo, and a message of “Clear Vision Demo: on” will be display on the screen for a duration of 5 seconds. Press Menu or Exit button, the message will disappear. Press and hold “ - ” button for 5 seconds again, Clear Vision Demo will be off.



Clear Vision function provides the best image viewing experience by converting low resolution and blurry images into clear and vivid images.

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# OSD Setting

Basic and simple instruction on the control keys.



1. Press the **MENU-button** to activate the OSD window.
2. Press - or + to navigate through the functions. Once the desired function is highlighted, press the **MENU-button** to activate. Press - or + to navigate through the sub-menu. Once the desired function is highlighted, press **MENU-button** to activate.
3. Press - or + to change the settings of the selected function. Press **AUTO** to exit. If you want to adjust any other function, repeat steps 2-3.
4. OSD Lock Function: To lock the OSD, press and hold the **MENU-button** while the monitor is off and then press **power-button** to turn the monitor on. To un-lock the OSD, press and hold the **MENU-button** while the monitor is off and then press **power-button** to turn the monitor on.

## Notes:

1. If the product has only one signal input, the item of "Input Select" is disabled.
2. If the product screen size is 4:3 or input signal resolution is wide format, the item of "Image Ratio" is disabled.
3. One of Clear vision, DCR, Color Boost, and Picture Boost functions is activated; the other three functions are turned off accordingly.

## Luminance



- 1 Press **MENU** (Menu) to display menu.
- 2 Press - or + to select  (Luminance), and press **MENU** to enter.
- 3 Press - or + to select submenu, and press **MENU** to enter.
- 4 Press - or + to adjust.
- 5 Press **AUTO** to exit.

	Brightness	0-100		Backlight Adjustment.
	Contrast	0-100		Contrast from Digital-register.
	Eco mode	Standard		Standard Mode.
		Text		Text Mode.
		Internet		Internet Mode.
		Game		Game Mode.
		Movie		Movie Mode.
		Sports		Sports Mode.
	Gamma	Gamma1		Adjust to Gamma 1.
		Gamma2		Adjust to Gamma 2.
		Gamma3		Adjust to Gamma 3.
	DCR	Off		Disable dynamic contrast ratio.
		On		Enable dynamic contrast ratio.

## Image Setup



- 1 Press **MENU** (Menu) to display menu.
- 2 Press - or + to select  (Image Setup), and press **MENU** to enter.
- 3 Press - or + to select submenu, and press **MENU** to enter.
- 4 Press - or + to adjust.
- 5 Press **AUTO** to exit.

	Clock	0-100	Adjust picture Clock to reduce Vertical-Line noise.
	Phase	0-100	Adjust Picture Phase to reduce Horizontal-Line noise.
	Sharpness	0-100	Adjust picture sharpness.
	H.Position	0-100	Adjust the horizontal position of the picture.
	V.Position	0-100	Adjust the vertical position of the picture.

## Color Setup



- 1 Press **MENU** (Menu) to display menu.
- 2 Press - or + to select  (Color Setup), and press **MENU** to enter.
- 3 Press - or + to select submenu, and press **MENU** to enter.
- 4 Press - or + to adjust.
- 5 Press **AUTO** to exit.

	Color setup.	Warm		Recall Warm Color Temperature from EEPROM.
		Normal		Recall Normal Color Temperature from EEPROM.
		Cool		Recall Cool Color Temperature from EEPROM.
		sRGB		Recall SRGB Color Temperature from EEPROM.
	User	Red		Red Gain from Digital-register.
		Green		Green Gain Digital-register.
		Blue		Blue Gain from Digital-register.
	DCB Mode	Full Enhance	on or off	Disable or Enable Full Enhance Mode.
		Nature Skin	on or off	Disable or Enable Nature Skin Mode.
		Green Field	on or off	Disable or Enable Green Field Mode.
		Sky-blue	on or off	Disable or Enable Sky-blue Mode.
		AutoDetect	on or off	Disable or Enable AutoDetect Mode.
	DCB Demo		on or off	Disable or Enable Demo.

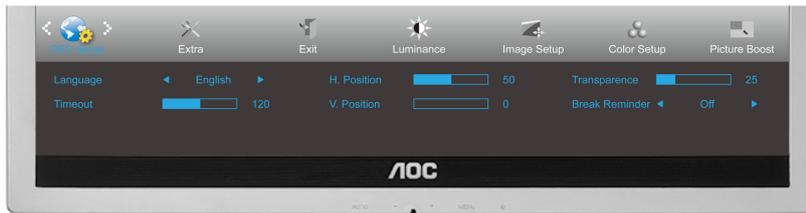
## Picture Boost



- 1 Press **MENU** (Menu) to display menu.
- 2 Press - or + to select  (Picture Boost), and press **MENU** to enter.
- 3 Press - or + to select submenu, and press **MENU** to enter.
- 4 Press - or + to adjust.
- 5 Press **AUTO** to exit.

	Frame Size	14-100	Adjust Frame Size.
	Brightness	0-100	Adjust Frame Brightness.
	Contrast	0-100	Adjust Frame Contrast.
	H. position	0-100	Adjust Frame horizontal position.
	V. position	0-100	Adjust Frame vertical position.
	Bright Frame	on or off	Disable or Enable Bright Frame.

## OSD Setup



- 1 Press **MENU** (Menu) to display menu.
- 2 Press - or + to select  (OSD Setup), and press **MENU** to enter.
- 3 Press - or + to select submenu, and press **MENU** to enter.
- 4 Press - or + to adjust.
- 5 Press **AUTO** to exit.

	H. Position	0-100	Adjust the horizontal position of OSD.
	V. Position	0-100	Adjust the vertical position of OSD.
	Timeout	5-120	Adjust the OSD Timeout.
	Transparence	0-100	Adjust the transparence of OSD.
	Language		Select the OSD language.
	Break Reminder	on or off	Disable or Enable (1 hour of work, break ?) / (2 hours of work, break ?)

## Extra



1 Press **MENU** (Menu) to display menu.

2 Press - or + to select  (Extra), and press **MENU** to enter.

3 Press - or + to select submenu, and press **MENU** to enter.

4 Press - or + to adjust.

5 Press **AUTO** to exit.

	Input Select	Auto / Analog / DVI	Select input signal source.
	Auto Config	yes or no	Auto adjust the picture to default.
	Off timer	0-24hrs	Select DC off time.
	Image Ratio	NA	NA
	DDC-CI	yes or no	Turn ON/OFF DDC-CI Support.
	Reset	Yes/ENERGY STAR®	Reset the menu to default. (ENERGY STAR® available for selective models)
		no	
Information		Show the information of the main image and sub-image source.	

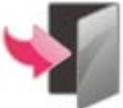
## Exit



1 Press **MENU** (Menu) to display menu.

2 Press - or + to select  (Exit), and press **MENU** to enter.

3 Press **AUTO** to exit.

	Exit		Exit the main OSD.
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## LED Indicator

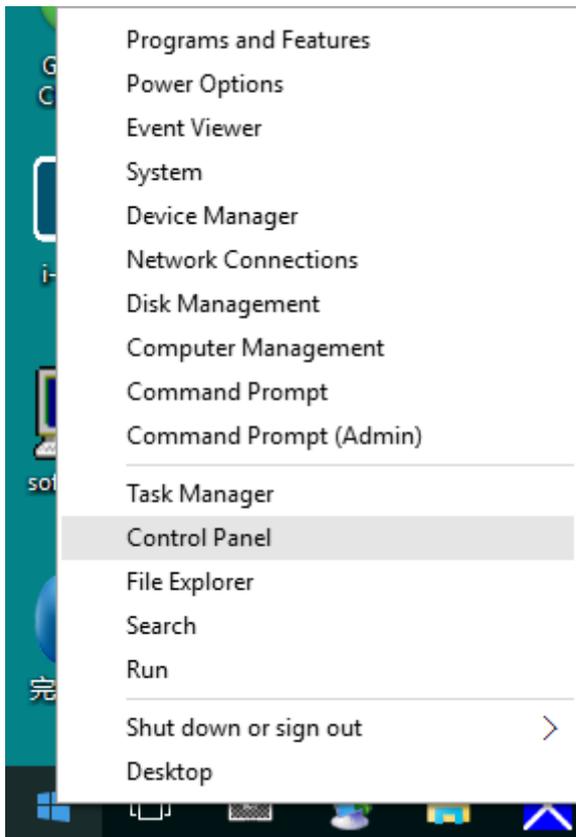
Status	LED Color
Full Power Mode	Green
Active-off Mode	Orange

# Driver

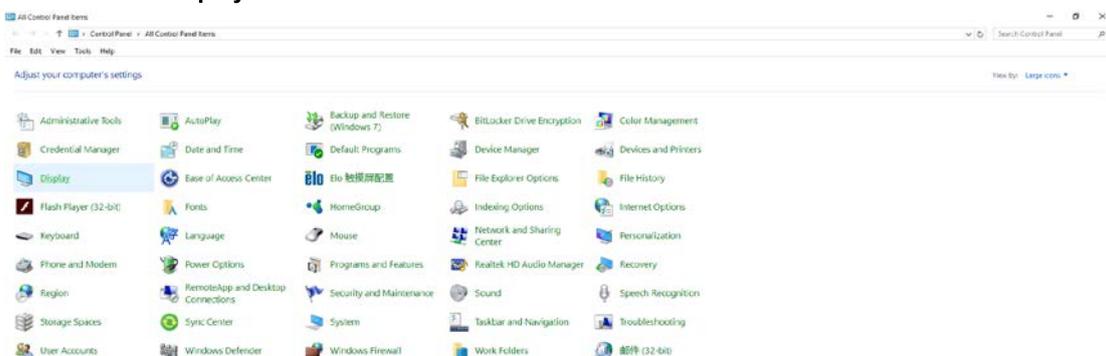
## Monitor Driver

### Windows 10

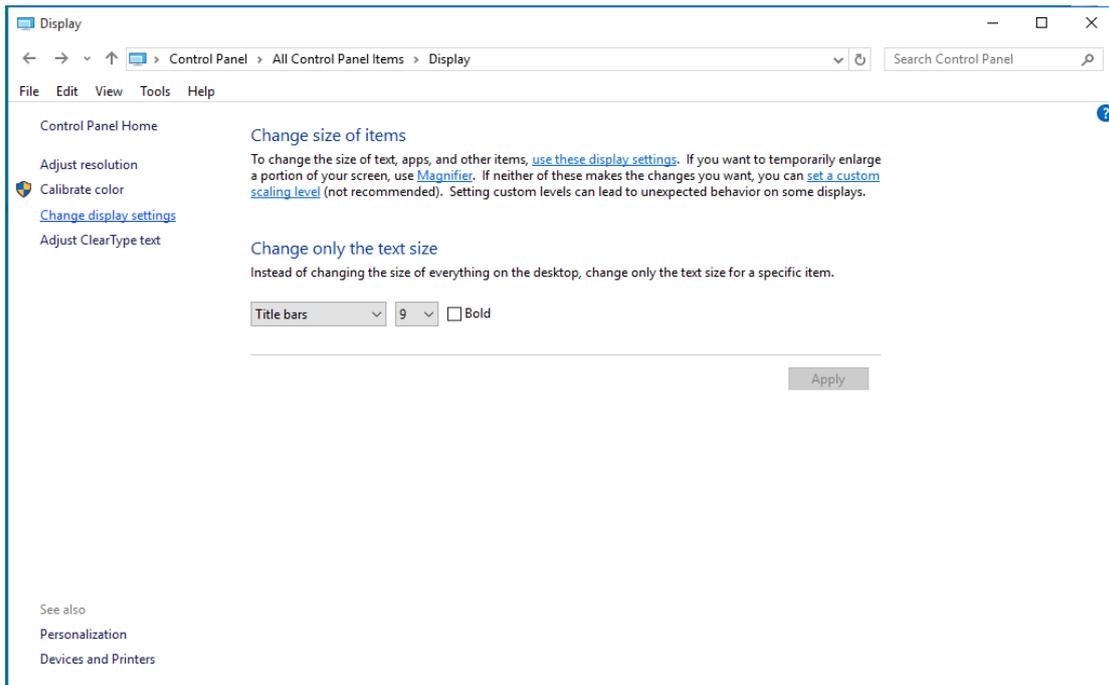
- Start Windows® 10
- Right click **START**.
- Click "**Control Panel**".



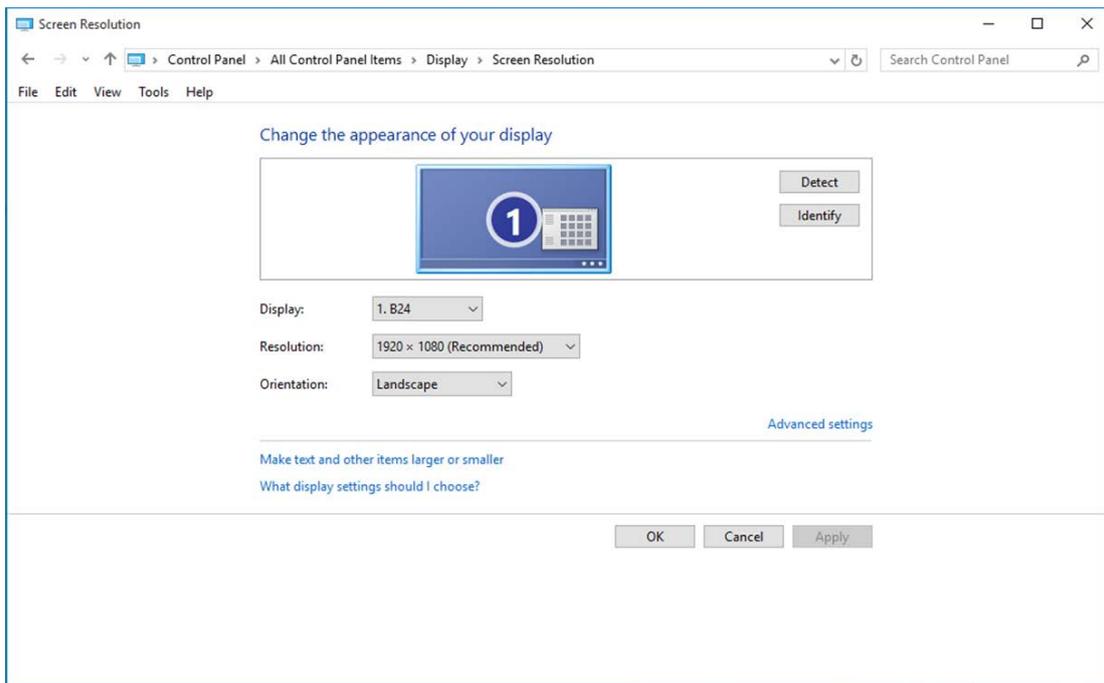
- Click on the "**Display**" icon.



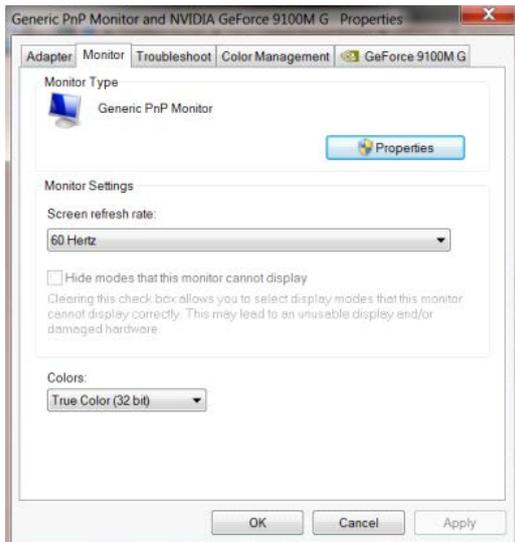
- Click on the **"Change display settings"** button



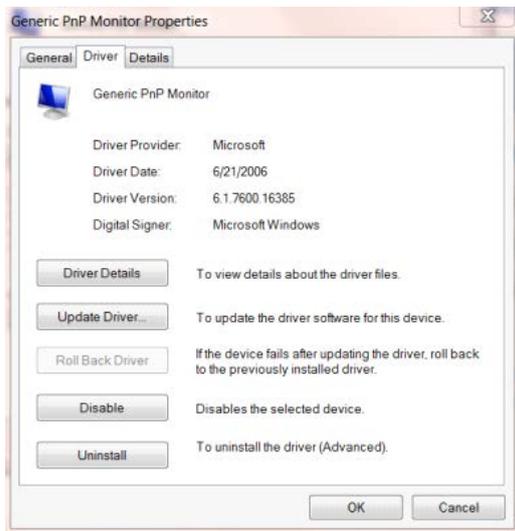
- Click the **"Advanced Settings"** button.



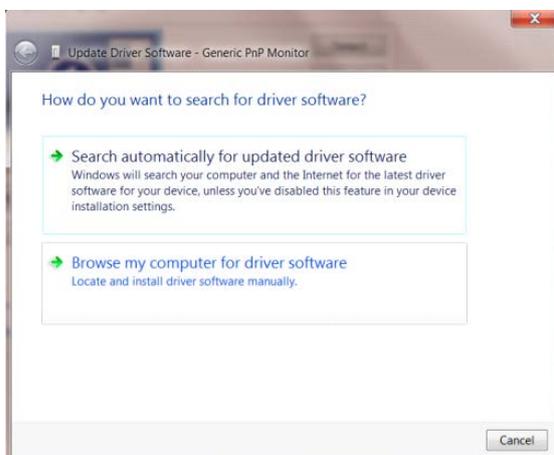
- Click the **"Monitor"** tab and then click the **"Properties"** button.



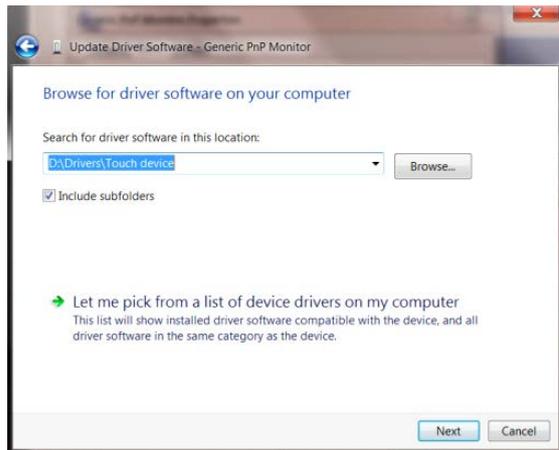
- Click the **"Driver"** tab.



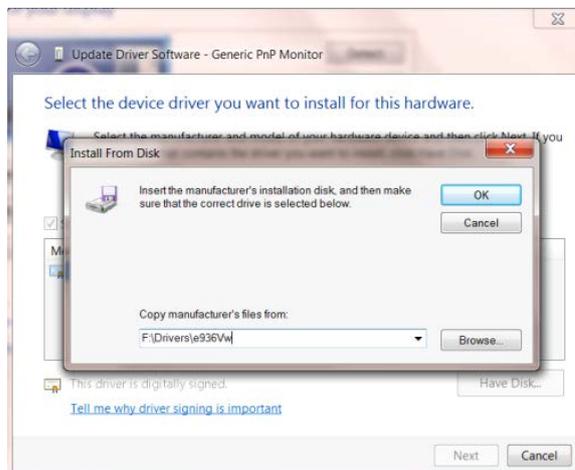
- Open the "Update Driver Software-Generic PnP Monitor" window by clicking on **"Update Driver..."** "and then click the **"Browse my computer for driver software"** button.



- Select **"Let me pick from a list of device drivers on my computer"**.



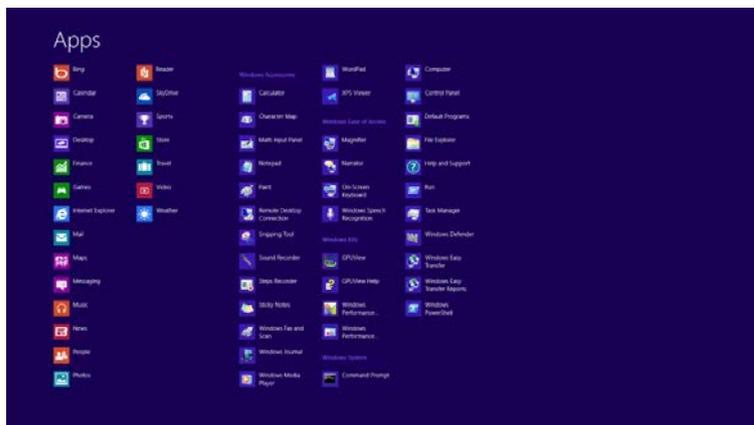
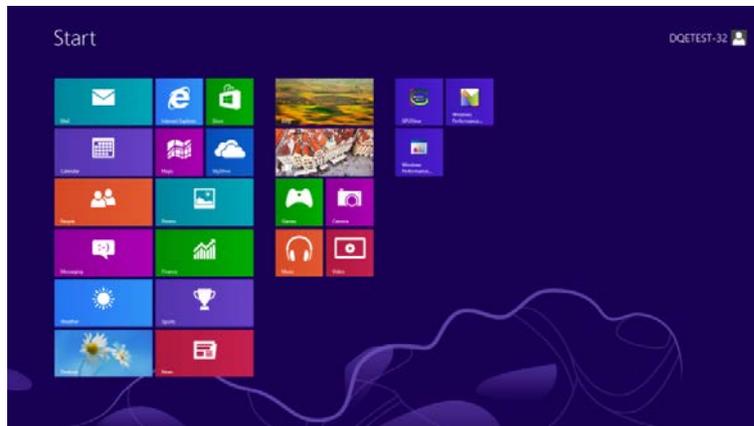
- Click the **"Have Disk"** button. Click on the **"Browse"** button and navigate to the following directory:  
X:\Driver\module name(where X is the drive letter designator for the CD-ROM drive).



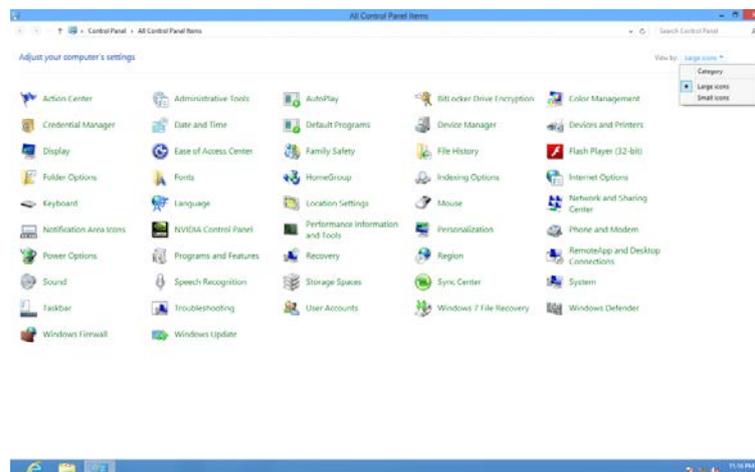
- Select the **"xxx.inf"** file and click the **"Open"** button. Click the **"OK"** button.
- Select your monitor model and click the **"Next"** button. The files will be copied from the CD to your hard disk drive.
- Close all open windows and remove the CD.
- Restart the system. The system will automatically select the maximum refresh rate and corresponding Color Matching Profiles.

## Windows 8

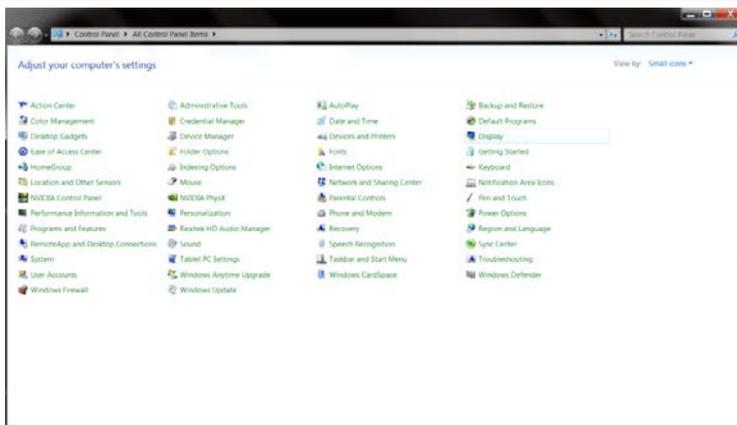
- Start Windows® 8
- Right click and click **All apps** at the bottom-right of the screen.



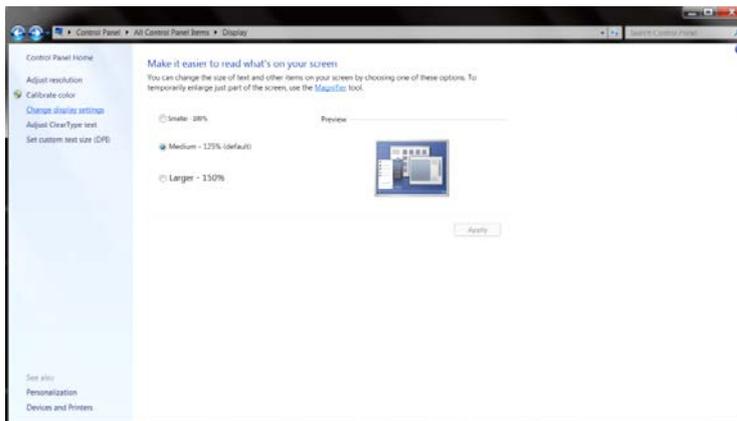
- Click on the **"Control Panel"** icon
- Set the **"View by"** to **"Large icons"** or **"Small icons"**.



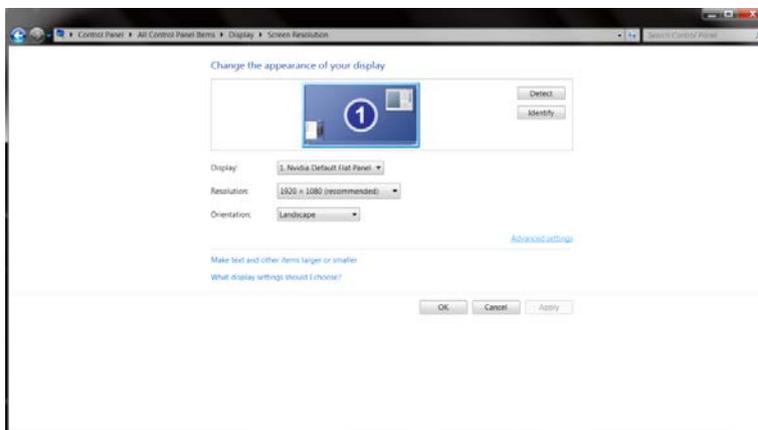
- Click on the **"Display"** icon.



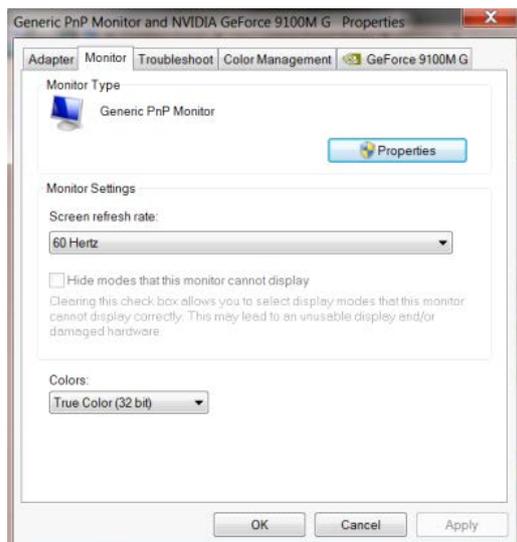
- Click on the **"Change display settings"** button.



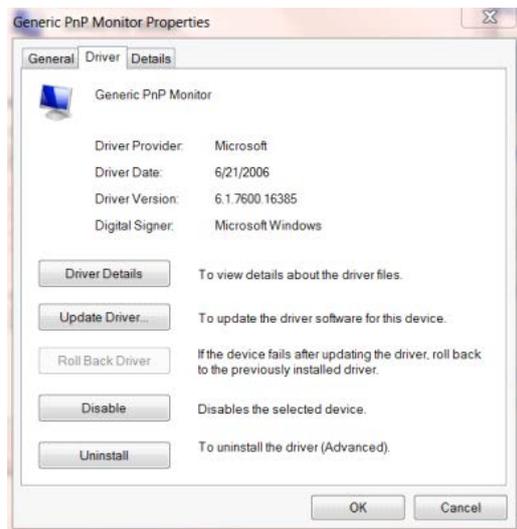
- Click the **"Advanced Settings"** button.



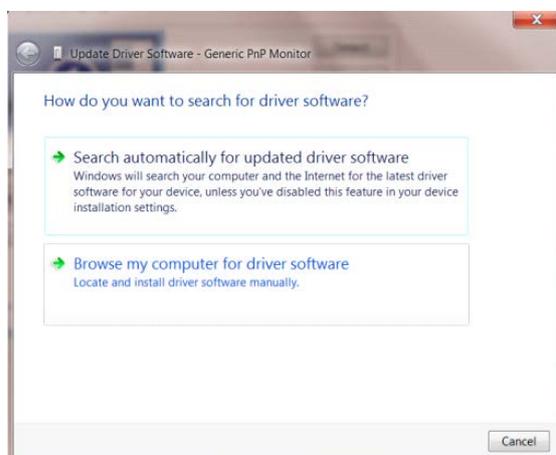
- Click the **"Monitor"** tab and then click the **"Properties"** button.



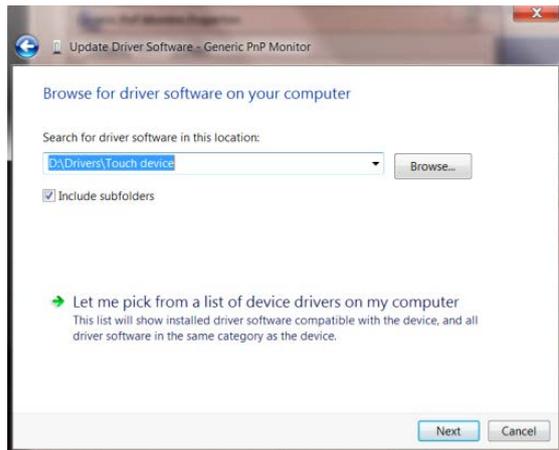
- Click the **"Driver"** tab.



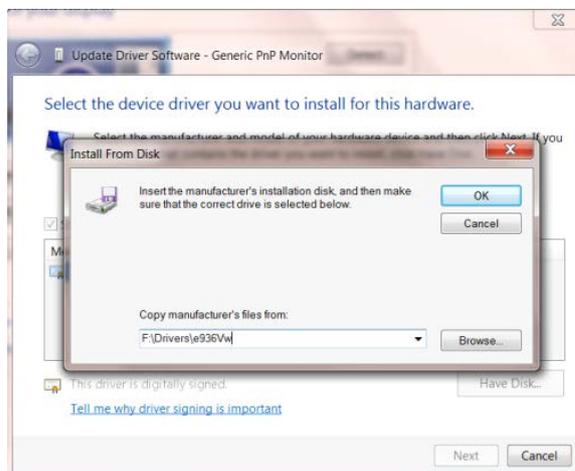
- Open the **"Update Driver Software-Generic PnP Monitor"** window by clicking on **"Update Driver..."** and then click the **"Browse my computer for driver software"** button.



- Select **"Let me pick from a list of device drivers on my computer"**.



- Click the **"Have Disk"** button. Click on the **"Browse"** button and navigate to the following directory:  
X:\Driver\module name (where X is the drive letter designator for the CD-ROM drive).

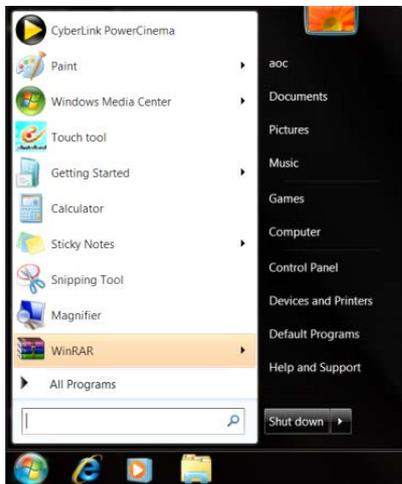


- Select the **"xxx.inf"** file and click the **"Open"** button. Click the **"OK"** button.
- Select your monitor model and click the **"Next"** button. The files will be copied from the CD to your hard disk drive.
- Close all open windows and remove the CD.
- Restart the system. The system will automatically select the maximum refresh rate and corresponding Color Matching Profiles.

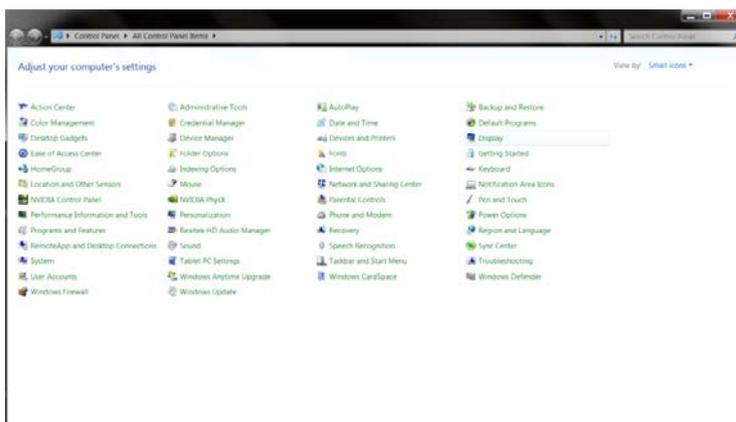
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## Windows 7

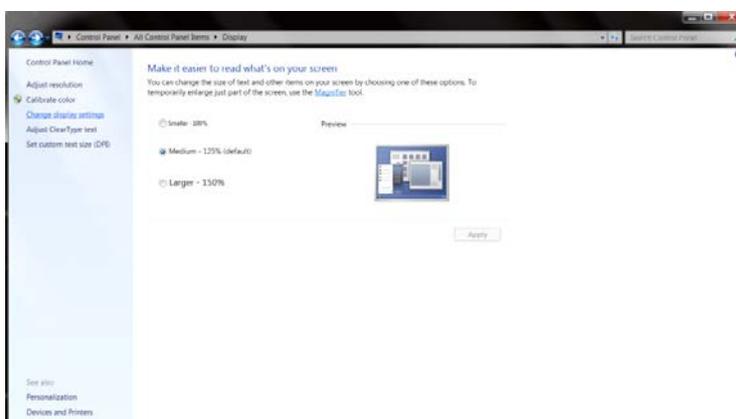
- Start Windows® 7
- Click on the **"Start"** button and then click on **"Control Panel"**.



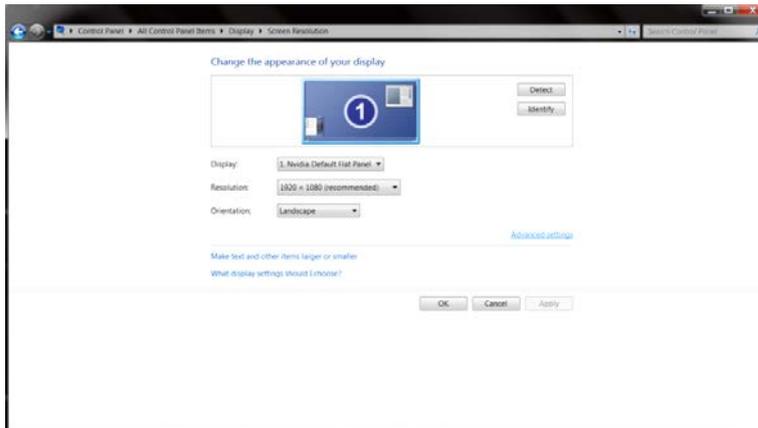
- Click on the **"Display"** icon.



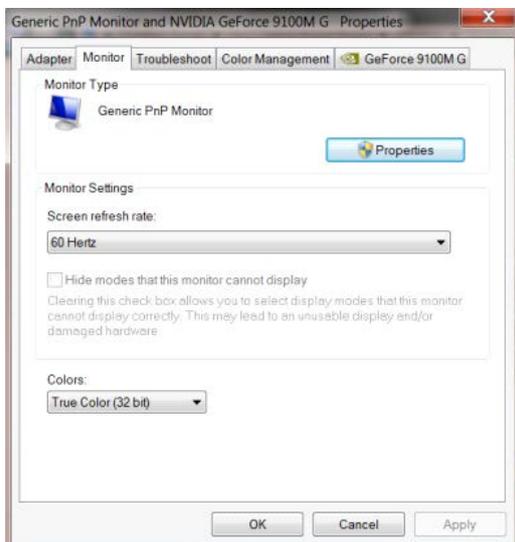
- Click on the **"Change display settings"** button.



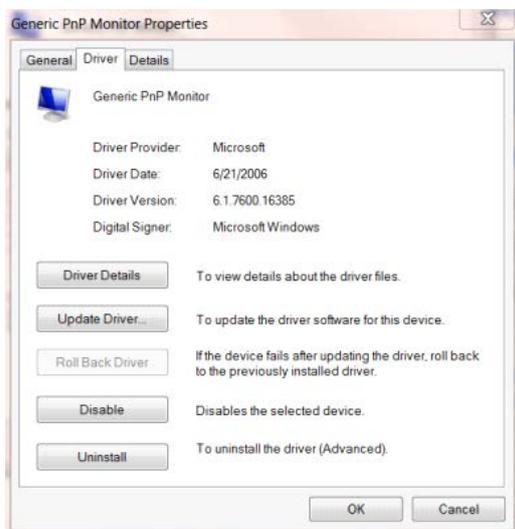
- Click the **"Advanced Settings"** button.



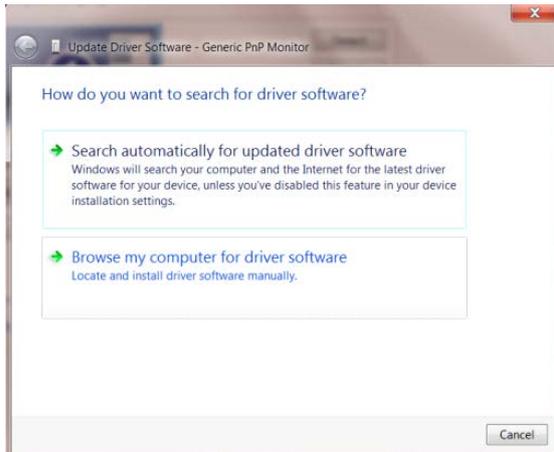
- Click the **"Monitor"** tab and then click the **"Properties"** button.



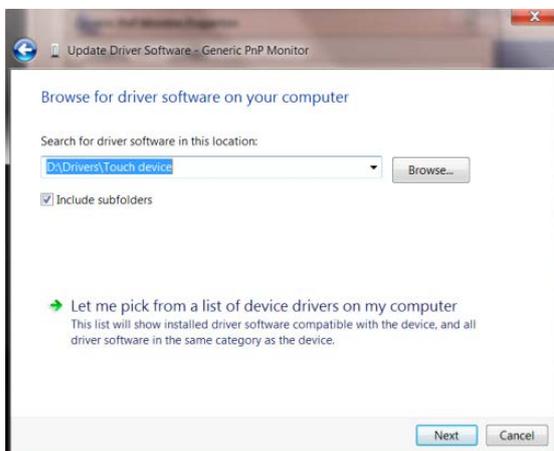
- Click the **"Driver"** tab.



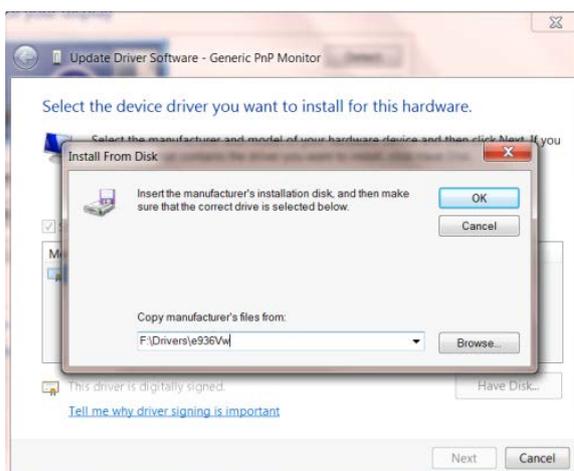
- Open the "Update Driver Software-Generic PnP Monitor" window by clicking on "Update Driver..." and then click the "Browse my computer for driver software" button.



- Select "Let me pick from a list of device drivers on my computer".



- Click the "Have Disk" button. Click on the "Browse" button and navigate to the following directory: X:\Driver\module name(where X is the drive letter designator for the CD-ROM drive).



- 
- Select the "**xxx.inf**" file and click the "**Open**" button. Click the "**OK**" button.
  - Select your monitor model and click the "**Next**" button. The files will be copied from the CD to your hard disk drive.
  - Close all open windows and remove the CD.
  - Restart the system. The system will automatically select the maximum refresh rate and corresponding Color Matching Profiles.

# i-Menu



Welcome to "i-Menu" software by AOC. i-Menu makes it easy to adjust your monitor display setting by using on screen menus instead of the OSD button on the monitor. To complete installation, please follow the installation guide.



## e-Saver

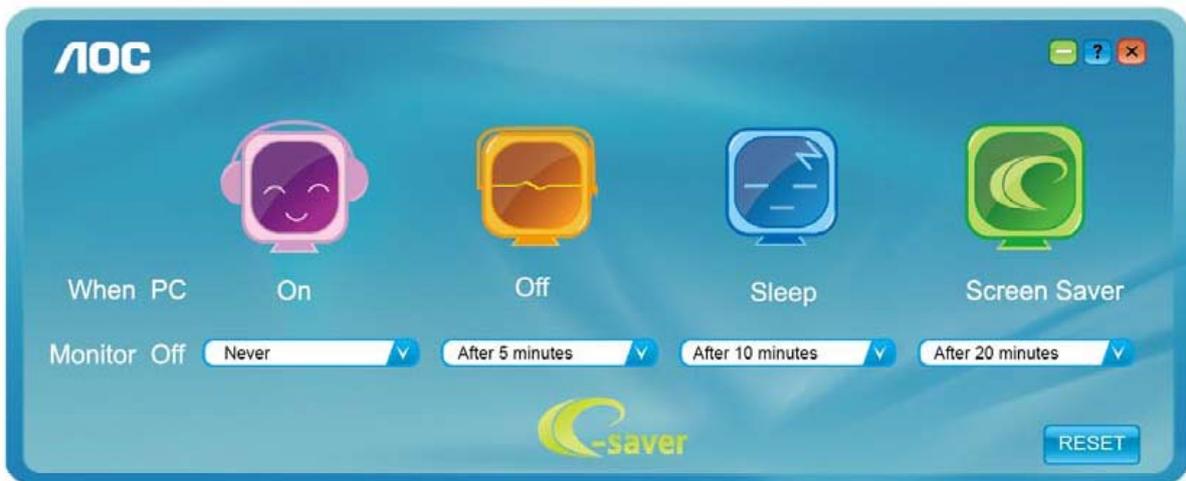


Welcome to use AOC e-Saver monitor power management software! The AOC e-Saver features Smart Shutdown functions for your monitors, allows your monitor to timely shutdown when PC unit is at any status (On, Off, Sleep or Screen Saver); the actual shutdown time depends on your preferences (see example below).

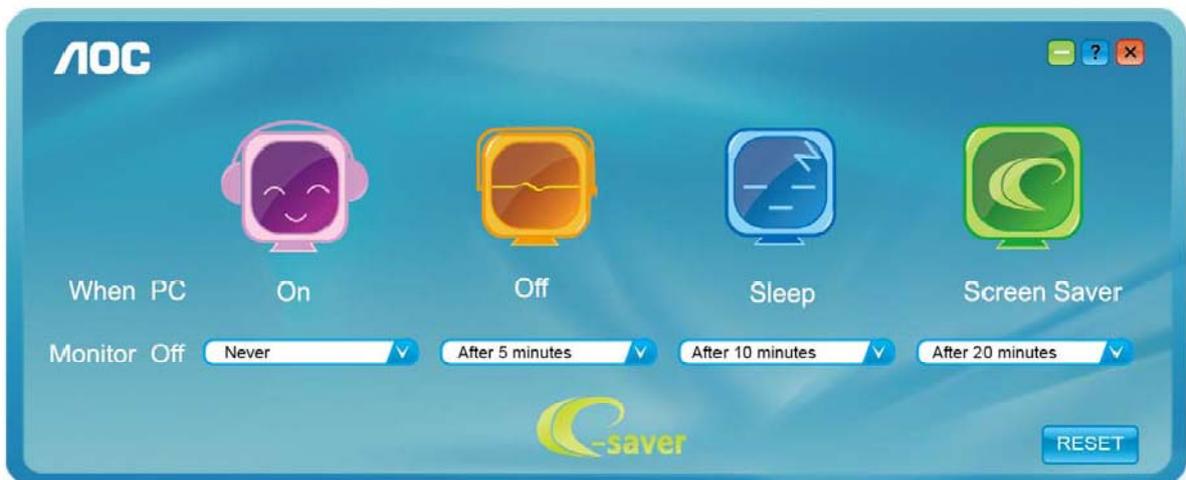
Please click on "driver/e-Saver/setup.exe" to start installing the e-Saver software, follow the install wizard to complete software installation.

Under each of the four PC status, you may choose from the pull-down menu the desired time (in minutes) you're your monitor to automatically shutdown. The example above illustrated:

1. The monitor will never shutdown when the PC is powered on.
2. The monitor will automatically shutdown 5 minutes after the PC is powered off.
3. The monitor will automatically shutdown 10 minutes after the PC is in sleep/stand-by mode.
4. The monitor will automatically shutdown 20 minutes after the screen saver appears.



You can click "RESET" to set the e-Saver to its default settings like below.

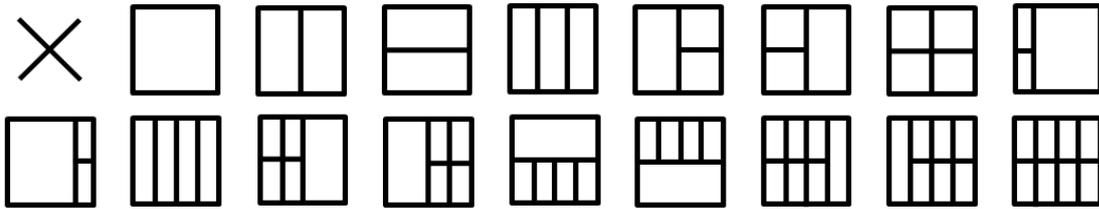


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## Screen+



Welcome to "Screen+" software by AOC. Screen+ software is a desktop screen splitting tool; it splits the desktop into different panels, and each panel displays a different window. You only need to drag the window to a corresponding pane, when you want to access it. It supports multiple monitor display to make your task easier. Please follow the installation software to install it.



# Troubleshoot

Problem & Question	Possible Solutions
<b>Power LED Is Not ON</b>	Make sure the power button is ON and the Power Cord is properly connected to a grounded power outlet and to the monitor.
<b>No images on the screen</b>	<ul style="list-style-type: none"> <li>• Is the power cord connected properly? Check the power cord connection and power supply.</li> <li>• Is the cable connected correctly? (Connected using the D-sub cable) Check the DB-15 cable connection. (Connected using the DVI cable) Check the DVI cable connection. * DVI input is not available on every model.</li> <li>• If the power is on, reboot the computer to see the initial screen (the login screen), which can be seen. If the initial screen (the login screen) appears, boot the computer in the applicable mode (the safe mode for Windows 7/8/10) and then change the frequency of the video card. (Refer to the Setting the Optimal Resolution) If the initial screen (the login screen) does not appear, contact the Service Center or your dealer.</li> <li>• Can you see "Input Not Supported" on the screen? You can see this message when the signal from the video card exceeds the maximum resolution and frequency that the monitor can handle properly. Adjust the maximum resolution and frequency that the monitor can handle properly.</li> <li>• Make sure the AOC Monitor Drivers are installed.</li> </ul>
<b>Picture Is Fuzzy &amp; Has Ghosting Shadowing Problem</b>	<p>Adjust the Contrast and Brightness Controls.</p> <p>Press for auto adjust.</p> <p>Make sure you are not using an extension cable or switch box. We recommend plugging the monitor directly to the video card output connector on the back.</p>

<p><b>Picture Bounces, Flickers Or Wave Pattern Appears In The Picture</b></p>	<p>Move electrical devices that may cause electrical interference as far away from the monitor as possible.</p> <p>Use the maximum refresh rate your monitor is capable of at the resolution you are using.</p>
<p><b>Monitor Is Stuck In Active Off-Mode"</b></p>	<p>The Computer Power Switch should be in the ON position.</p> <p>The Computer Video Card should be snugly fitted in its slot.</p> <p>Make sure the monitor's video cable is properly connected to the computer.</p> <p>Inspect the monitor's video cable and make sure no pin is bent.</p> <p>Make sure your 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.</p>
<p><b>Missing one of the primary colors (RED, GREEN, or BLUE)</b></p>	<p>Inspect the monitor's video cable and make sure that no pin is damaged.</p> <p>Make sure the monitor's video cable is properly connected to the computer.</p>
<p><b>Screen image is not centered or sized properly</b></p>	<p>Adjust H-Position and V-Position or press hot-key (AUTO).</p>
<p><b>Picture has color defects (white does not look white)</b></p>	<p>Adjust RGB color or select desired color temperature.</p>
<p><b>Horizontal or vertical disturbances on the screen</b></p>	<p>Use Windows 7/8/10 shut-down mode Adjust CLOCK and FOCUS.</p> <p>Press to auto-adjust.</p>
<p><b>Regulation &amp; Service</b></p>	<p>Please refer to Regulation &amp; Service Information which is in the CD manual or <a href="http://www.aoc.com">www.aoc.com</a> (to find the model you purchase in your country and to find Regulation &amp; Service Information in Support page.</p>

# Specification

## General Specification

Panel	Model name	E719SDA	
	Driving system	TFT Color LCD	
	Viewable Image Size	43.2cm diagonal	
	Pixel pitch	0.264 (H)mm x 0.264(V)mm	
	Video	R, G, B Analog Interface & Digital Interface	
	Separate Sync.	H/V TTL	
	Display Color	16.7M Colors	
	Pixel Clock	108MHz	
Resolution	Horizontal scan range	30 kHz - 83 kHz	
	Horizontal scan Size(Maximum)	337.920mm	
	Vertical scan range	50 Hz - 76 Hz	
	Vertical scan Size(Maximum)	270.336mm	
	Optimal preset resolution	1280×1024@60Hz	
	Plug & Play	VESA DDC2B/CI	
	Input Connector	VGA/DVI	
	Input Video Signal	Analog: 0.7Vp-p(standard), 75 OHM, TMDS	
	Power Source	100-240VAC,50/60Hz	
	Power Consumption	Active	15W (typical)
		Standby Mode	< 0.5 W
	Off timer	0-24 hrs	
Speakers	1W x 2		
Physical Characteristics	Connector Type	VGA/DVI	
	Signal Cable Type	Detachable	
Environmental	Temperature:		
	Operating	0° to 40°	
	Non-Operating	-25° to 55°	
	Humidity:		
	Operating	10% to 85% (non-condensing)	
	Non-Operating	5% to 93% (non-condensing)	
	Altitude:		
	Operating	0~ 5000m (0~ 16404 ft )	
	Non-Operating	0~ 12192m (0~ 40000 ft )	



## General Specification

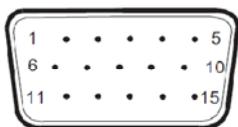
Panel	Model name	E719SD	
	Driving system	TFT Color LCD	
	Viewable Image Size	43.2cm diagonal	
	Pixel pitch	0.264 (H)mm x 0.264(V)mm	
	Video	R, G, B Analog Interface & Digital Interface	
	Separate Sync.	H/V TTL	
	Display Color	16.7M Colors	
	Pixel Clock	108MHz	
Resolution	Horizontal scan range	30 kHz - 83 kHz	
	Horizontal scan Size(Maximum)	337.920mm	
	Vertical scan range	50 Hz - 76 Hz	
	Vertical scan Size(Maximum)	270.336mm	
	Optimal preset resolution	1280×1024@60Hz	
	Plug & Play	VESA DDC2B/CI	
	Input Connector	VGA/DVI	
	Input Video Signal	Analog: 0.7Vp-p(standard), 75 OHM, TMDS	
	Power Source	100-240VAC,50/60Hz	
	Power Consumption	Active	14W (typical)
		Standby mode	< 0.5 W
Off timer	0-24 hrs		
Physical Characteristics	Connector Type	VGA/DVI	
	Signal Cable Type	Detachable	
Environmental	Temperature:		
	Operating	0° to 40°	
	Non-Operating	-25° to 55°	
	Humidity:		
	Operating	10% to 85% (non-condensing)	
	Non-Operating	5% to 93% (non-condensing)	
	Altitude:		
	Operating	0~ 5000m (0~ 16404 ft )	
	Non-Operating	0~ 12192m (0~ 40000 ft )	



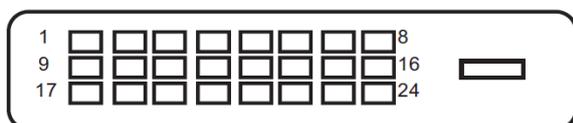
Preset Display Modes

<b>STANDARD</b>	<b>RESOLUTION</b>	<b>HORIZONTAL FREQUENCY(kHZ)</b>	<b>VERTICAL FREQUENCY(Hz)</b>
VGA	640×480@60Hz	31.469	59.940
VGA	640×480@72Hz	37.861	72.809
VGA	640×480@75Hz	37.500	75.000
SVGA	800×600@56Hz	35.156	56.250
SVGA	800×600@60Hz	37.879	60.317
SVGA	800×600@72Hz	48.077	72.188
SVGA	800×600@75Hz	46.875	75.000
XGA	1024×768@60Hz	48.363	60.004
XGA	1024×768@75Hz	60.023	75.029
SXGA	1280×1024@60Hz	63.981	60.020
SXGA	1280×1024@75Hz	79.976	75.025
IBM-MODE DOS	720×400@70Hz	31.469	70.087
MAC MODE VGA	640×480@67Hz	35.000	66.667
MAC MODE SVGA	832×624@75Hz	49.725	74.551

## Pin Assignments



Pin Number	15-Pin Side of the Signal Cable	Pin Number	15-Pin Side of the Signal Cable
1	Video-Red	9	+5V
2	Video-Green	10	Ground
3	Video-Blue	11	N.C.
4	N.C.	12	DDC-Serial data
5	Detect Cable	13	H-sync
6	GND-R	14	V-sync
7	GND-G	15	DDC-Serial clock
8	GND-B		



Pin Number	24-Pin Color Display Signal Cable	Pin Number	24-Pin Color Display Signal Cable
1	TMDS data 2-	13	TMDS data 3+
2	TMDS data 2+	14	+5V Power
3	TMDS data 2/4 Shield	15	Ground (for+5V)
4	TMDS data 4-	16	Hot Plug Detect
5	TMDS data 4+	17	TMDS data 0-
6	DDC Clock	18	TMDS data 0+
7	DDC Data	19	TMDS data 0/5 Shield
8	N.C.	20	TMDS data 5-
9	TMDS data 1-	21	TMDS data 5+
10	TMDS data 1+	22	TMDS Clock Shield
11	TMDS data 1/3 Shield	23	TMDS Clock +
12	TMDS data 3-	24	TMDS Clock -

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# 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 host system of its identity and, depending on the level of DDC used, communicate additional information about its display capabilities.

The DDC2B is a bi-directional data channel based on the I2C protocol. The host can request EDID information over the DDC2B channel.