VA322 Series

LCD Monitor

User Guide

Table of contents

Notices

As an Energy Star® Partner, our company has determined that this product meets the Energy Star® guidelines for energy efficiency.

This product implements power management functionality. In case of no signal input after 10 seconds, the product automatically goes to sleep/standby mode.

Safety information

- Before setting up the monitor, carefully read all the documentation that came with the package.
- To prevent fire or shock hazard, never expose the monitor to rain or moisture.
- Never try to open the monitor cabinet. The dangerous high voltages inside the monitor may result in serious physical injury.
- If the power supply is broken, do not try to fix it by yourself. Contact a qualified service technician or your retailer.
- Before using the product, make sure all cables are correctly connected and the power cables are not damaged. If you detect any damage, contact your dealer immediately.
- Slots and openings on the back or top of the cabinet are provided for ventilation. Do not block these slots. Never place this product near or over a radiator or heat source 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 supply to your home, consult your dealer or local power company.
- Use the appropriate power plug which complies with your local power standard.
- Do not overload power strips and extention cords. Overloading can result in fire or electric shock.
- Avoid dust, humidity, and temperature extremes. Do not place the monitor in any area where it may become wet. Place the monitor on a stable surface.
- Unplug the unit during a lightning storm or if it will not be used for a long period of time. This will protect the monitor from damage due to power surges.
- Never push objects or spill liquid of any kind into the slots on the monitor cabinet.
- To ensure satisfactory operation, use the monitor only with UL listed computers which have appropriate configured receptacles marked between 100-240V AC.
- The socket-outlet shall be installed near the equipment and shall be easily accessible.
- If you encounter technical problems with the monitor, contact a qualified service technician or your retailer.

Care & Cleaning

- Before you lift or reposition your monitor, it is better to disconnect the cables and power cord. Follow the correct lifting techniques when positioning the monitor. When lifting or carrying the monitor, grasp the edges of the monitor. Do not lift the display by the stand or the cord.

- Cleaning. Turn your monitor off and unplug the power cord. Clean the monitor surface with a lint-free, non-abrasive cloth. Stubborn stains may be removed with a cloth dampened with mild cleaner.

- Avoid using a cleaner containing alcohol or acetone. Use a cleaner intended for use with the LCD. Never spray cleaner directly on the screen, as it may drip inside the monitor and cause an electric shock.

The following symptoms are normal with the monitor:

- The screen may flicker during the initial use due to the nature of the fluorescent light. Turn off the Power Switch and turn it on again to make sure that the flicker disappears.

- You may find slightly uneven brightness on the screen depending on the desktop pattern you use.

- When the same image is displayed for hours, an afterimage of the previous screen may remain after switching the image. The screen will recover slowly or you can turn off the Power Switch for hours.

- When the screen becomes black or flashes, or cannot work anymore, contact your dealer or service center to fix it. Do not repair the screen by yourself!

Conventions used in this guide

WARNING: Information to prevent injury to yourself when trying to complete a task.

CAUTION: Information to prevent damage to the components when trying to complete a task.

IMPORTANT: Information that you MUST follow to complete a task.

NOTE: Tips and additional information to aid in completing a task.

Where to find more information

Refer to the following sources for additional information and for product and software updates.

1. **ASUS websites**
   The ASUS websites worldwide provide updated information on ASUS hardware and software products. Refer to **http://www.asus.com**

2. **Optional documentation**
   Your product package may include optional documentation that may have been added by your dealer. These documents are not part of the standard package.

1.1 Welcome!

Thank you for purchasing the ASUS® LCD monitor!

The latest widescreen LCD monitor from ASUS provides a crisper, broader, and brighter display, plus a host of features that enhance your viewing experience.

With these features, you can enjoy the convenience and delightful visual experience that the monitor brings to you!

1.2 Package contents

Check your package for the following items:

- ✓ LCD monitor
- ✓ Monitor Base
- ✓ Quick Start Guide
- ✓ Warranty Card
- ✓ 1x Power Adapter
- ✓ 1x Power Cord
- ✓ 1x DVI Cable

> • If any of the above items is damaged or missing, contact your retailer immediately.

1.3 Assembling the monitor base

1. Attach the base to the arm. Beware to align the latch to the notch on the base.

2. The end of the arm will slightly protrude from the base. No need to push it in.

3. Screw the base to the arm tightly.
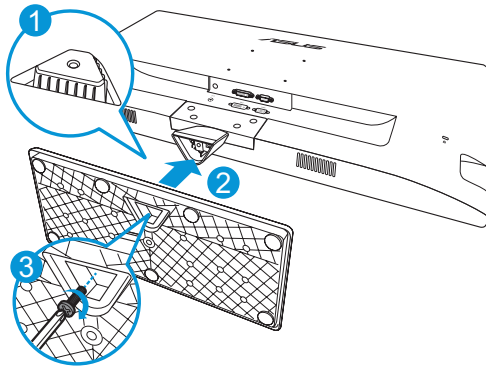
- We recommend that you cover the table surface with soft cloth to prevent damage to the monitor.

1.4 Connect cables

1.4.1 Rear of the LCD monitor
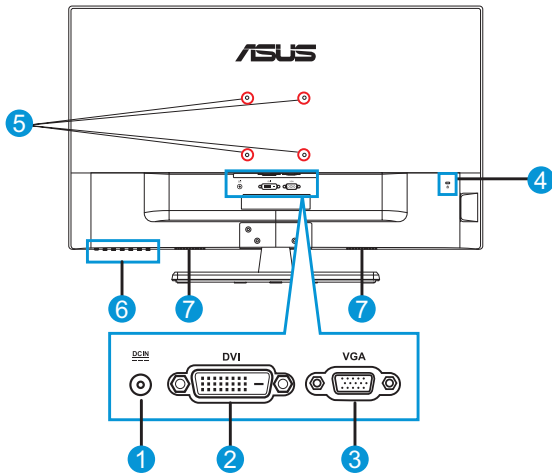
1. DC-IN port

2. DVI port

3. VGA port

4. Kensington Lock

5. Screw holes for VESA wall mount

6. Controls button

7. AURA Lighting (LED)

1.5   Monitor introduction

1.5.1   Using the Controls button

Use the controls button on the back of the monitor to adjust the image settings.
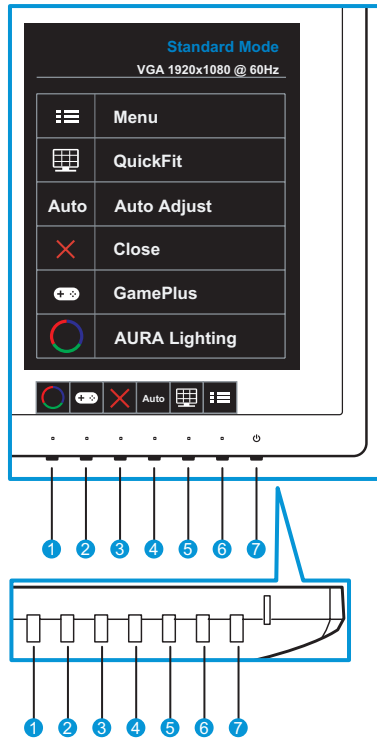
1. ◯ Shortcut Key2:

    •   This is a Shortcut key. The default setting is AURA Lighting.

2. 🎮 Shortcut Key1:

    •   This is a Shortcut key. The default setting is GamePlus.

3. ✕ Close Button:

    •   Exit the OSD menu.

4. **Auto** Auto Adjust Button:

    •   Use this hotkey to automatically adjust the image to its optimized position, clock, and phase. (Only available for VGA input.)

5. ⊞ QuickFit Button:

   • This is a hotkey to activate the **QuickFit** function designed for alignment.

   • The **QuickFit** function contains 6 pages of common grid patterns, paper sizes, and photo sizes. See page 1-6 for details.

6. ☰ MENU Button:

   • Press this button to enter the OSD menu.

7. ⏻ Power Button/Power Indicator:

   • Press this button to turn the monitor on/off.

   • The color definition of the power indicator is as the table below.

Status	Description
White	ON
Amber	Standby mode
OFF	OFF

1.5.2   QuickFit Function

The QuickFit function contains three patterns: (1) Grid (2) Paper size (3) Photo size.

QuickFit has three patterns:

1.   Grid pattern: Facilitates designers and users to organize content and layout on one page and achieve a consistent look and feel.

2.   Paper size: Provides users to view their documents in real size on the screen.
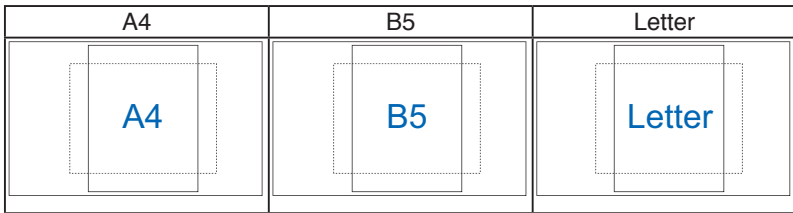
3.   Photo size: Provides photographers and other users to accurately view and edit their photos in real size on the screen.
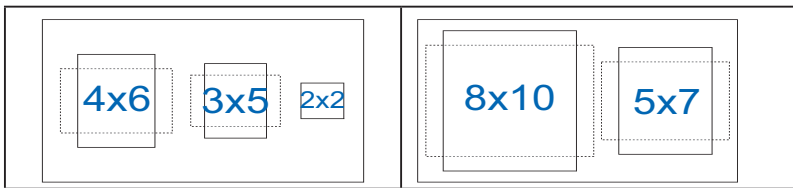
2.1   Detaching the arm/stand (for VESA wall mount)

The detachable stand of this monitor is specially designed for VESA wall mount.

1.   Disconnect power and signal cables. Carefully put the front of the monitor face down on a clean table.

2.   Use a screwdriver to remove the screws that secure the stand to the monitor, and detach the stand from the monitor.

⚠️   •   We recommend that you cover the table surface with soft cloth to prevent damage to the monitor.
        •   Hold the base while removing the screw.
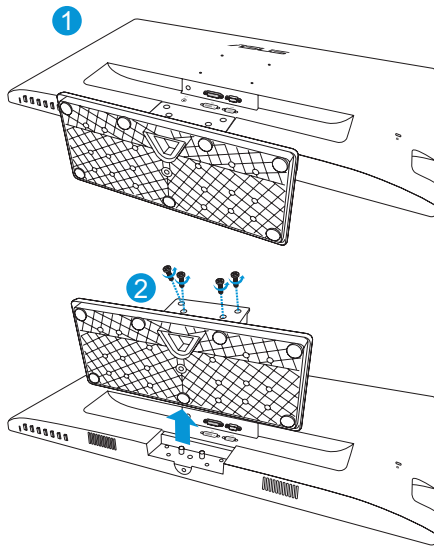
🖉   •   The VESA wall mount kit (100 x 100 mm) is purchased separately.
        •   Use only the UL Listed Wall Mount Bracket with minimum weight/load 22.7kg (Screw size: M4 x 10 mm).

3.1 OSD (On-Screen Display) menu

3.1.1 How to reconfigure
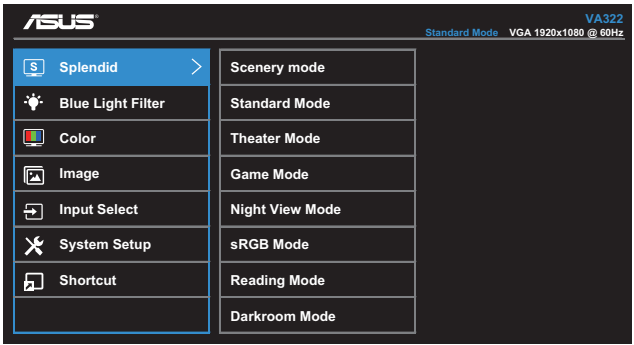
1. Press the MENU button to activate the OSD menu.

2. Press the ▼ and ▲ buttons to toggle between options in the Menu. As you move from one icon to another, the option name is highlighted.

3. To select the highlighted item on the menu press the ✓ button.

4. Press the ▼ and ▲ buttons to select the desired parameter.

5. Press the ✓ button to enter the slide bar and then use the ▼ and ▲ buttons, according to the indicators on the menu, to make your changes.

6. Select the ⤺ to return to previous menu or ✓ to accept and return to previous menu.

3.1.2 OSD Function Introduction

1. Splendid

This function contains eight sub-functions that you can select for your preference. Each mode has the Reset selection, allowing you to maintain your setting or return to the preset mode.
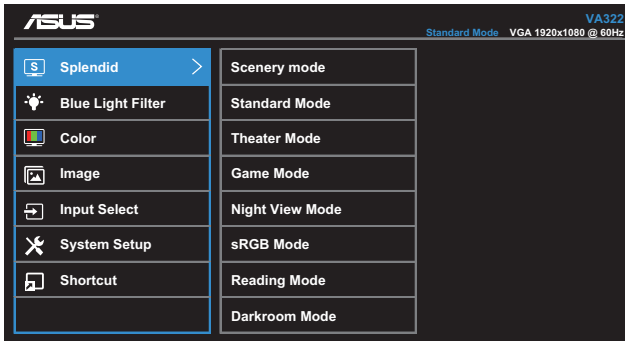
- **Scenery Mode**: This is the best choice for scenery photo displaying with SPLENDID™ Video Intelligence Technology.

- **Standard Mode**: This is the best choice for document editing with SPLENDID™ Video Intelligence Technology.

- **Theater Mode**: This is the best choice for movie watching with SPLENDID™ Video Intelligence Technology.

- **Game Mode**: This is the best choice for game playing with SPLENDID™ Video Intelligence Technology.

- **Night View Mode**: This is the best choice for playing dark-scene game or watching dark-scene movie with SPLENDID™ Video Intelligence Technology.

- **sRGB Mode**: This is the best choice for viewing photos and graphics from PCs.

- **Reading Mode**: This is the best choice for book reading with SPLENDID™ Video Intelligence Technology.

- **Darkroom Mode**: This is the best choice for a weak ambient light environmen with SPLENDID™ Video Intelligence Technology.

- In the Standard Mode, the Saturation, Skin Tone, Sharpness, and ASCR functions are not user-configurable.
- In the sRGB, the Saturation, Color Temp., SkinTone, Sharpness, Brightness, Contrast and ASCR functions are not user-configurable.
- In the Reading Mode, the Saturation, SkinTone, ASCR, contrast, and Color Temp functions are not user-configurable.

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2. **Blue Light Filter**

   In this function, you can adjust the blue light filter level.
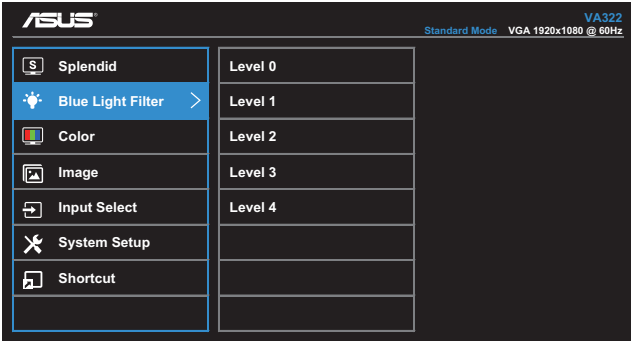
3. **Color**

   Select the image color you like from this function.
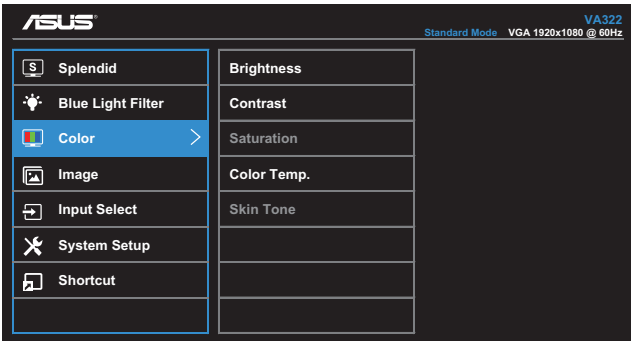
- **Brightness**: The adjusting range is from 0 to 100.
- **Contrast**: The adjusting range is from 0 to 100.
- **Saturation**: The adjusting range is from 0 to 100.
- **Color Temp.**: Contains three preset color modes (**Cool**, **Normal**, **Warm**, **User Mode**).
- **Skin Tone**: Contains three color modes including **Reddish**, **Natural**, and **Yellowish**.

- In the User Mode, colors of R (Red), G (Green), and B (Blue) are user-configurable; the adjusting range is from 0 ~ 100.

4. Image

You can adjust the image Sharpness, Trace Free, Aspect Control, VividPixel, ASCR, Position (VGA only), Focus (VGA only), and Auto Adjust (VGA only), from this main function.
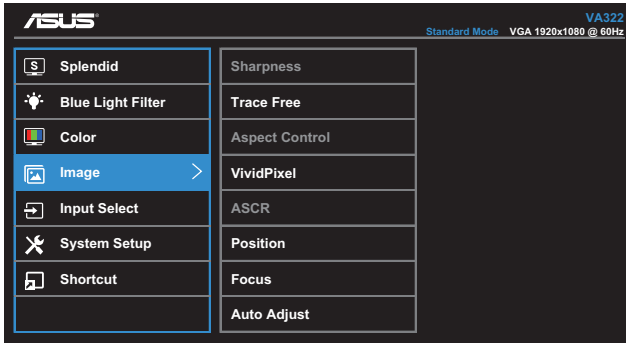
- **Sharpness**: Adjusts the picture sharpness. The adjusting range is from 0 to 100.

- **Trace Free**: Speeds up the response time by Over Drive technology. The adjusting range is from lower 0 to faster 100.

- **Aspect Control**: Adjusts the aspect ratio to "**Full**" or "**4:3**".

> • 4:3 is only available when input source is in 4:3 format.

- **VividPixel**: ASUS Exclusive Technology that brings lifelike visuals for crystal-clear and detail-oriented enjoyment. The adjusting range is from 0~100.

- **ASCR**: Select **ON** or **OFF** to enable or disable dynamic contrast ratio function.

- **Position**: Adjusts the horizontal position (**H-Position**) and the vertical position (**V-Position**) of the image. The adjusting range is from 0 to 100 (Only available for VGA input).

- **Focus**: Reduces Horizontal-line noise and Vertical-line noise of the image by adjusting (**Phase**) and (**Clock**) separately. The adjusting range is from 0 to 100 (Only available for VGA input).

- **AUTO Adjust**: Automatically adjust the image to its optimized position, clock, and phase. (Only available for VGA input.)

> • Phase adjusts the phase of the pixel clock signal. With a wrong phase adjustment, the screen shows horizontal disturbances.
> • Clock (pixel frequency) controls the number of pixels scanned by one horizontal sweep. If the frequency is not correct, the screen shows vertical stripes and the image is not proportional.

5.   Input Select

Select the input source from VGA or DVI input signal.
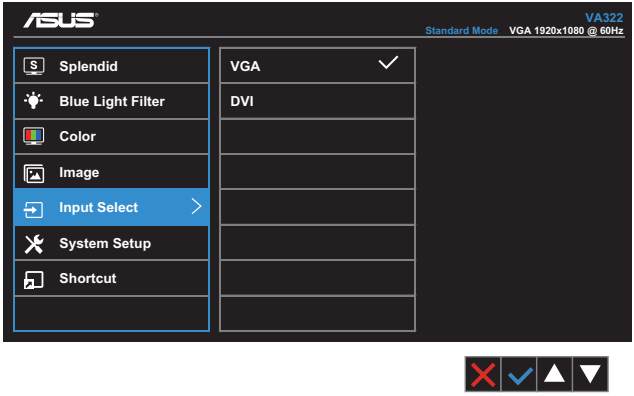
6.   System Setup

Adjusts the system configuration.
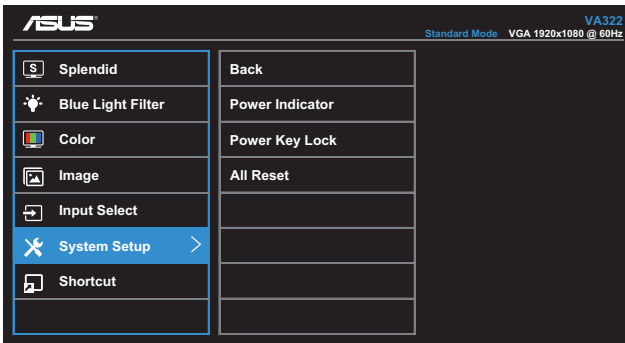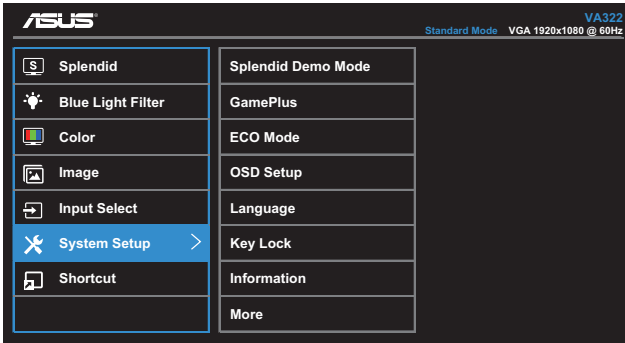
- •   **Splendid Demo Mode**: Activate the demo mode for the Splendid function.

- •   **GamePlus**: The GamePlus Function provides a toolkit and creates a better gaming environment for users when playing different types of games. Particularly, Crosshair function is specially designed for new gamers or beginners interested in First Person Shooter (FPS) games.

   To active GamePlus:

   - •   Select **ON** to enter the GamePlus main menu.

   - •   Press ◄ and ► to select between Crosshair and Timer function.

   - •   Press ✓ to confirm the function you choose. Press ⤺ to go back. Press ✕ to go off, and exit.

GamePlus main menu	GamePlus-Crosshair
GamePlus main-Timer	GamePlus main-Timer-Position
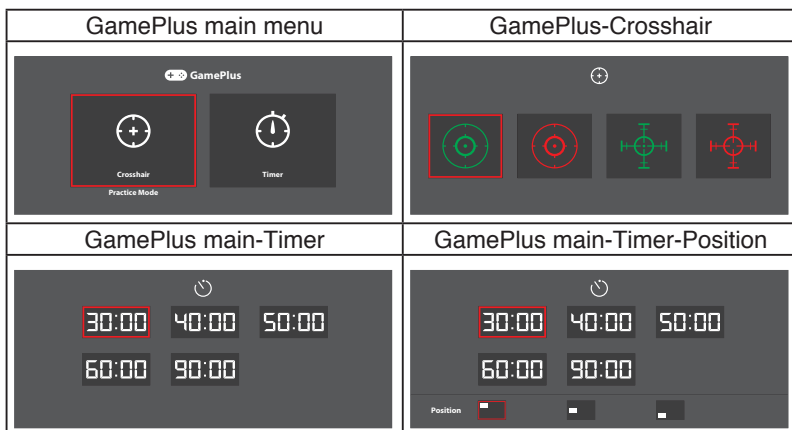
- **ECO Mode**: Activate the ecology mode for power saving.
- **OSD Setup**: Adjusts the **OSD Timeout**, **DDC/CI**, and **Transparency** of the OSD screen.
- **Language**: Select OSD language. The selections are: **English**, **French**, **German**, **Spanish**, **Italian**, **Dutch**, **Russian**, **Traditional Chinese**, **Simplified Chinese**, **Japanese**, **Persian**, **Thai**, **Indonesian**, **Poland**, **Turkey**, **Portugal**, **Czech**, **Croatia**, **Hungary**, **Romania**, and **Korean**.
- **Key Lock**: Pressing the second button on the right for more than five seconds to activate the key lock function.
- **More**: Return the next page of System Setting.
- **Back**: Return the previous page of System Setting.
- **Information**: Displays the monitor information.
- **Power Indicator**: Turn the power LED indicator on/off.
- **Power Key Lock**: To disable / enable power key.
- **All Reset**: Selects "**Yes**" to revert all settings to the factory default mode.

7. Shortcut

Selecting this option allows you to set two shortcut keys.

ASUS		VA322 Standard Mode VGA 1920x1080 @ 60Hz
S Splendid	Shortcut 1	Splendid
Blue Light Filter	Shortcut 2 ‹	Brightness
Color		Auto Adjust
Image		Contrast
Input Select		Color Temp.
System Setup		GamePlus
Shortcut ‹		Blue Light Filter
		AURA Lighting
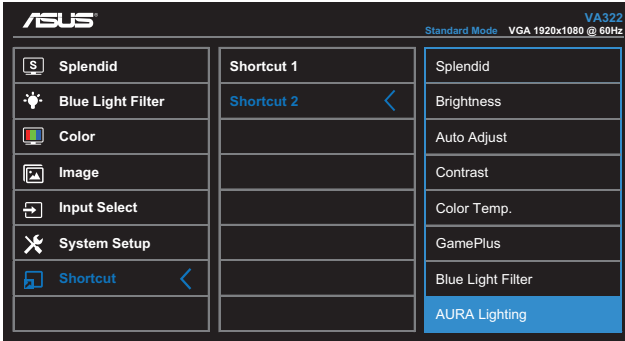
- **Shortcut 1**: User can select from "Splendid", "Brightness", "AUTO Adjust.", "Contrast", "Color Temp.", "GamePlus", "Blue Light Filter", "AURA Lighting" and set as shortcut key. The default setting is GamePlus.

- **Shortcut 2**: User can select from "Splendid", "Brightness", "AUTO Adjust", "Contrast", "Color Temp.", "GamePlus", "Blue Light Filter", "AURA Lighting" and set as shortcut key. The default setting is AURA Lighting.

3.1.2.1 AURA Lighting Function

AURA Lighting adds an ambient backlighting effect to your LCD monitor. By default, the setting is set to Off.
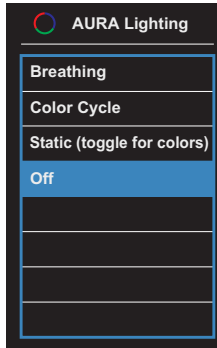
- **Breathing**: A continuous cycle of 6 colors (red, green, blue, yellow, purple, and cyan), fading smoothly from one into another.
- **Color Cycle**: A continuous cycle of 6 colors (purple, blue, cyan, green, yellow, and red) illuminate one after the other.
- **Static (toggle for colors)**: One color out of 6 (red, yellow, green, blue, cyan and purple) is illuminated. Press the ✓ button to toggle the desired color.
- **Off**: The AURA Lighting function is disabled.

- When the power source is disconnected, the AURA Lighting function is off.

3.2   Specifications

Model	VA322NR-W
Panel Size/Type	31.5"W IPS (WLED)
Max. Resolution	1920 x 1080
Brightness (Typ.)	250 cd/m^2
Intrinsic Contrast Ratio (Typ.)	1200:1
Viewing Angle (CR ≤ 10)	178°(V); 178°(H)
Display Colors	16.7M(Real 8 bits)
Response Time (Typ.)	5 ms (Gray to Gray)
D-Sub input	Yes
DVI input	Yes
Power ON Consumption	Power on <27*
Speaker	N/A
Power saving mode	< 0.5 W
Power off mode	< 0.5 W
VESA Wall Mounting	Yes (100 mm x 100 mm)
Phys. Dimension (incl. base) (WxHxD)	723.4 x 483.8 x 160.8 mm
Box Dimension (WxHxD)	786 x 534 x 120 mm
Net Weight (incl. stand)	5.3 kg
Gross Weight (Esti.)	7.2 kg
Voltage Rating	65W Adaptor DC19V 3.42A, AC100-240V at 50/60Hz
Temperature	Operating: 0~40˚C Non-operating: -20 ~ 60˚C

*Note: measuring a screen brightness of 200 nits without audio/ USB/ Card reader connection.

3.3   Troubleshooting (FAQ)

Problem	Possible Solution
Power LED is not ON	• Press the ⏻ button to check if the monitor is in the ON mode. • Check if the power cord is properly connected to the monitor and the power outlet. • Check Power Indicator function in main menu OSD. Select "ON" to turn on power LED.
The power LED lights amber and there is no screen image	• Check if the monitor and the computer are in the ON mode. • Make sure the signal cable is properly connected the monitor and the computer. • Inspect the signal cable and make sure none of the pins are bent. • Connect the computer with another available monitor to check if the computer is properly working.
Screen image is too light or dark	• Adjust the Contrast and Brightness settings via OSD.
Screen image is not centered or sized properly	• Open main menu OSD, Execute Image / Auto Adjust. Function (for VGA only). • Adjust the H-Position or V-Position settings via OSD.
Screen image bounces or a wave pattern is present in the image	• Make sure the signal cable is properly connected to the monitor and the computer. • Move electrical devices that may cause electrical interference.
Screen image has color defects (white does not look white)	• Inspect the signal cable and make sure that none of the pins are bent. • Perform Reset via OSD. • Adjust the R/G/B color settings or select the Color Temperature via OSD.
Screen image is blurry or fuzzy	• Open main menu OSD, Execute Image / Auto Adjust. Function (for VGA only). • Adjust the Phase and Clock settings via OSD.
No sound or sound is low*	• Make sure the audio cable is properly connected to the monitor. • Adjust the volume settings of both your monitor and computer. • Make sure the computer sound card driver is properly installed and activated.

Note: *VA322NR-W does not have built-in speakers.

3.4　Supported Timing List

VESA / IBM Modes Support Timing

Mode	Resolution (active dot)	Resolution (total dot)	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Nominal Pixel Color (MHz)
DOS	720x400@70Hz	900x449	31.469	70.087	28.322
VGA	640x480@60Hz	800x525	31.469	59.940	25.175
	640x480@72Hz	832x520	37.861	72.809	31.500
	640x480@75Hz	840x500	37.500	75.000	31.500
SVGA	800x600@56Hz	1024x625	35.156	56.250	36.000
	800x600@60Hz	1056x628	37.879	60.317	40.000
	800x600@72Hz	1040x666	48.077	72.188	50.000
	800x600@75Hz	1056x625	46.875	75.000	49.500
XGA	1024x768@60Hz	1344x806	48.363	60.004	65.000
	1024x768@70Hz	1328x806	56.476	70.069	75.000
	1024x768@75Hz	1312x800	60.023	75.029	78.750
VESA	1152x864@75Hz	1600x900	67.500	75.000	108.00
SXGA	1280x1024@60Hz	1688x1066	63.981	60.020	108.00
	1280x1024@75Hz	1688x1066	79.976	75.025	135.00
	1280x960@60Hz	1800x1000	60.000	60.000	108.00
WXGA	1280x800@60Hz	1680x831	49.702	59.810	83.500
	1280x720@60Hz	1650x750	45.000	60.000	74.250
	1280x768@60Hz	1664x798	47.776	59.870	79.500
	1360x768@60Hz	1792x795	47.712	60.015	85.500
	1366x768@60Hz	1792x798	47.712	59.790	85.500
WXGA+	1440x900@60Hz	1904x934	55.935	59.887	106.500
UXGA	1600x1200@60Hz	2160x1250	75.000	60.000	162.000
WSXGA+	1680x1050@60Hz	2240x1089	65.290	59.954	146.250
WUXGA	1920x1080@60Hz	2200x1125	67.500	60.000	148.500
MAC	640x480@66.66Hz	864x525	35.000	66.660	30.240
SVGA	832x624@75Hz	1152x667	49.714	74.533	57.270

* Modes not listed in the table may not be supported. For optimal resolution, we recommend that you choose a mode listed in the table above.