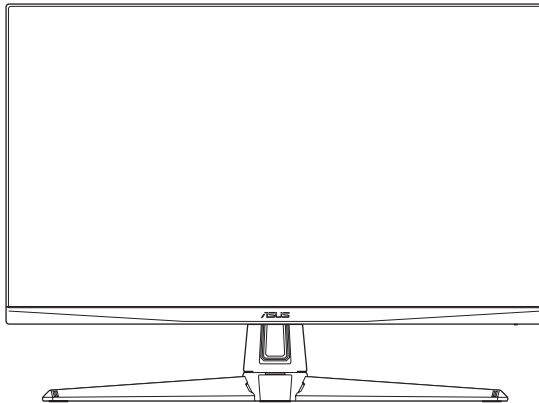




TUF Gaming Monitor VG27AQM5A Series

User Guide



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Notices

Federal Communications Commission Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- This device must accept any interference received including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



WARNING: The use of shielded cables for connection of the monitor to the graphics card is required to assure compliance with FCC regulations. Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Canadian Department of Communications Statement

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

This class B digital apparatus complies with Canadian ICES-003.

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

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.



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 extension 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.
- If you encounter technical problems with the monitor, contact a qualified service technician or your retailer.
- Adjustment of the volume control as well as the equalizer to other settings than the center position may increase the ear-/headphones output voltage and therefore the sound pressure level.



This symbol of the crossed out wheeled bin indicates that the product (electrical, electronic equipment, and mercury-containing button cell battery) should not be placed in municipal waste. Please check local regulations for disposal of electronic products.

AEEE yönetmeliine uygundur

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 monitor. 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.

3. About Flicker

https://www.asus.com/Microsite/display/eye_care_technology/

Takeback Services

ASUS recycling and takeback programs come from our commitment to the highest standards for protecting our environment. We believe in providing solutions for our customers to be able to responsibly recycle our products, batteries and other components as well as the packaging materials.

Please go to <http://csr.asus.com/english/Takeback.htm> for detail recycling information in different region.

Product information for EU energy label



VG27AQM5A

1.1 Welcome!

Thank you for purchasing the ASUS® LCD monitor!

The latest widescreen LCD monitor from ASUS provides a broader, brighter and crystal-clear 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:

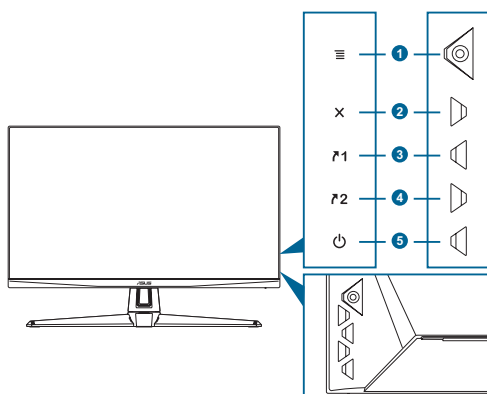
- ✓ LCD monitor
- ✓ Monitor base
- ✓ Monitor arm
- ✓ Quick Start Guide
- ✓ Warranty card
- ✓ Power cord
- ✓ DisplayPort cable




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

1.3 Monitor introduction

1.3.1 Front view

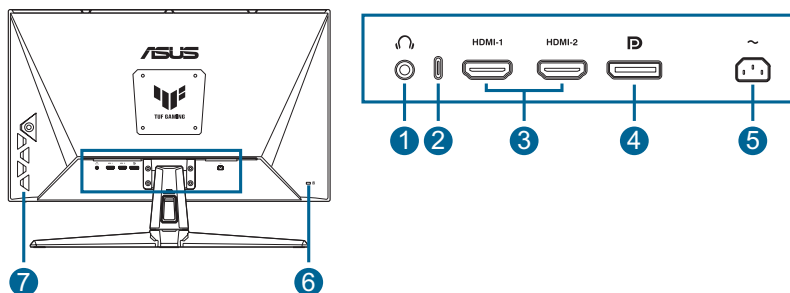


1. **⌂ (5-way) button:**
 - Turns on the OSD menu. Enacts the selected OSD menu item.
 - Increases/Decreases values or moves your selection up/down/left/right.
 - Displays the input selection bar when the monitor enters standby mode or displays the “NO SIGNAL” message.
2. **✕ button:**
 - Exits the OSD menu item.
 - Displays the input selection bar when the monitor enters standby mode or displays the “NO SIGNAL” message.
3. **F1 Shortcut 1 button:**
 - Default: GamePlus.
 - To change the shortcut function, go to the MyFavorite > Shortcut > Shortcut 1 menu.
 - Displays the input selection bar when the monitor enters standby mode or displays the “NO SIGNAL” message.
4. **F2 Shortcut 2 button:**
 - Default: GameVisual.
 - To change the shortcut function, go to the MyFavorite > Shortcut > Shortcut 2 menu.
 - Displays the input selection bar when the monitor enters standby mode or displays the “NO SIGNAL” message.

5.  Power button/power indicator:
- Turns the monitor on/off.
 - The color definition of the power indicator is as the below table.

Status	Description
White	ON
Amber	Standby mode/No signal
OFF	OFF

1.3.2 Back view
















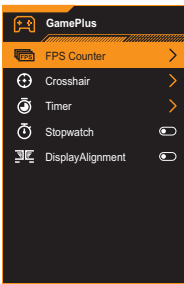
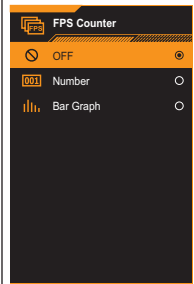
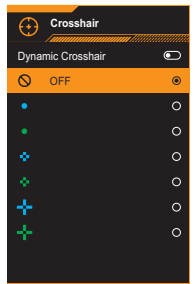
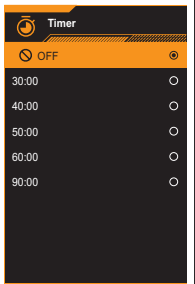
1. **Earphone jack.** This port is only available when an HDMI/DisplayPort cable is connected.
2. **Service port.** Use this port to connect the monitor with your PC via USB type-C cable to upgrade the firmware of the monitor.
3. **HDMI ports.** These ports are for connection with an HDMI compatible devices.
4. **DisplayPort.** This port is for connection for a DisplayPort compatible device.
5. **ACIN port.** This port connects the power cord.
6. **Kensington lock slot.**
7. **Control buttons.**

1.3.3 GamePlus Function

The GamePlus function provides a toolkit and creates a better gaming environment for users when playing different types of games. The FPS (frames per second) counter lets you know how smooth the game is running. The crosshair overlay with 6 different crosshair options letting you choose the one that best suits the game you're playing. There are also on screen timer and stopwatch you can position on the left of the display so you can keep track of the gaming time. Display Alignment displays alignment lines on 4 sides of the screen, serving as an easy and handy tool for you to line up multiple monitors perfectly.

To active GamePlus:

1. Press the GamePlus hotkey.
2. Move the  () button up/down to select among different functions.
3. Press the  () button or move the  () button right to confirm the function you choose, and move the  () button up/down to navigate through the settings. Move the  () button left to go back, off, and exit.
4. Highlight the desired setting and press the  () button to activate it. Press the  button to inactivate it.

GamePlus Main Menu	GamePlus — FPS counter	GamePlus — Crosshair	GamePlus — Timer
			

1.3.4 GameVisual Function

The GameVisual function helps you select among different picture modes in a convenient way.

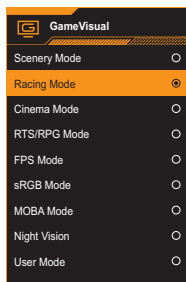
To active GameVisual:

Press the GameVisual hotkey repeatedly to select.

- **Scenery mode:** This is the best choice for scenery photo displaying with GameVisual™ Video intelligence Technology.
- **Racing Mode:** This is the best choice for racing game playing with GameVisual™ Video intelligence Technology.
- **Cinema Mode:** This is the best choice for movie watching with GameVisual™ Video intelligence Technology.
- **RTS/RPG Mode:** This is the best choice for Real-Time Strategy (RTS)/Role-Playing Game (RPG) playing with GameVisual™ Video intelligence Technology.
- **FPS Mode:** This is the best choice for First Person Shooter game playing with GameVisual™ Video intelligence Technology.
- **sRGB Mode:** This is the best choice for viewing photos and graphics from PCs.
- **MOBA Mode:** This is the best choice for multiplayer online battle arena game playing with GameVisual™ Video intelligence Technology.
- **Night Vision:** This is the best choice for dark scenery playing GameVisual™ Video intelligence Technology.
- **User Mode:** More items are adjustable in the Color menu.



- In the Racing mode, the following function(s) are not user-configurable: Saturation and ASCR.
- In the sRGB mode, the following function(s) are not user-configurable: Brightness, Contrast, Saturation, Color Temp., and ASCR.
- In the MOBA mode, the following function(s) are not user-configurable: Saturation and ASCR.
- In the Night Vision mode, the following function(s) are not user-configurable: Saturation, Six-axis Saturation.



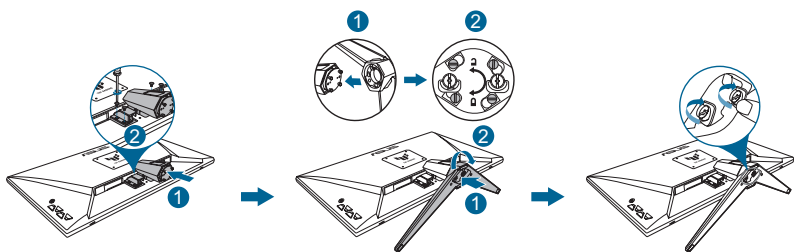
2.1 Assembling the monitor arm/base

To assemble the monitor base:

1. Have the front of the monitor face down on a table.
2. Place the arm hinge of the stand assembly onto its compartment on the rear of the monitor.
3. Attach the base into the arm, making sure the tab on the arm fits into the groove on the base.
4. Fix the base to the arm by fastening the bundled screw(s).



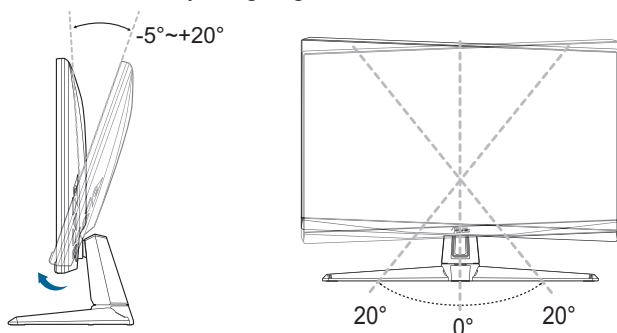
We recommend that you cover the table surface with soft cloth to prevent damage to the monitor.



- Hinge screw size: M4 x 8 mm.
- Base screw size: M6 x 16.2 mm.

2.2 Adjusting the monitor

- For optimal viewing, we recommend that you look at the full face of the monitor, then adjust the monitor to the angle that is most comfortable for you.
- Hold the stand to prevent the monitor from falling when you change its angle.
- The recommended adjusting angle is -5° to 20° .



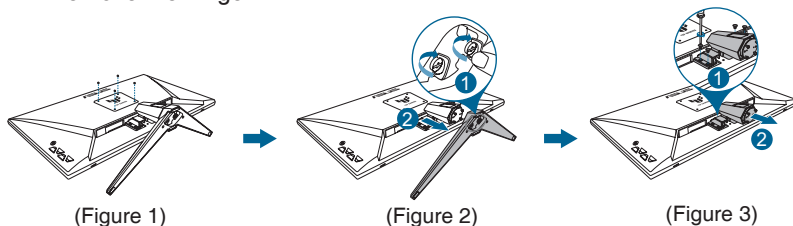
- It is normal that the monitor slightly shakes while you adjust the viewing angle.

2.3 Detaching the arm (for VESA wall mount)

The detachable arm/base of this monitor is specially designed for VESA wall mount.

To detach the arm/base:

1. Have the front of the monitor face down on a table.
2. Remove the rubbers in the four screw holes. (Figure 1)
3. Remove the base. (Figure 2)
4. Use a screwdriver to remove the screw on the hinge (Figure 3), then remove the hinge.





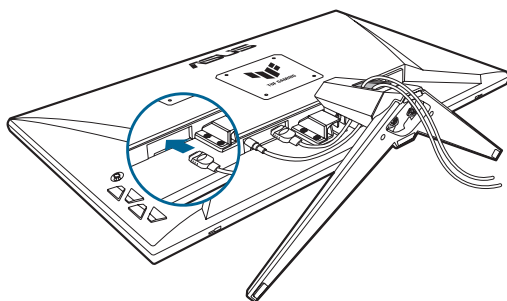
- We recommend that you cover the table surface with soft cloth to prevent damage to the monitor.



- 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 8 mm).

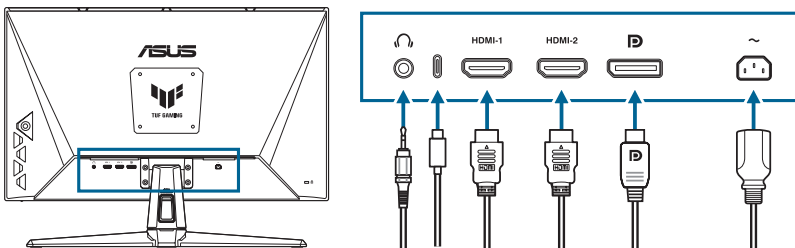
2.4 Cable management

You can organize the cables using the cable management slot. Remove the cover before putting the cables through the slot and attach the cover back on.



2.5 Connecting the cables



Connect the cables as the following instructions:



- **To use the earphone:** Connect the end with plug type to the monitor's earphone jack when an HDMI/DisplayPort signal is fed.
- **Service port:** Use this port to connect the monitor with your PC via USB type-C cable to upgrade the firmware of the monitor.

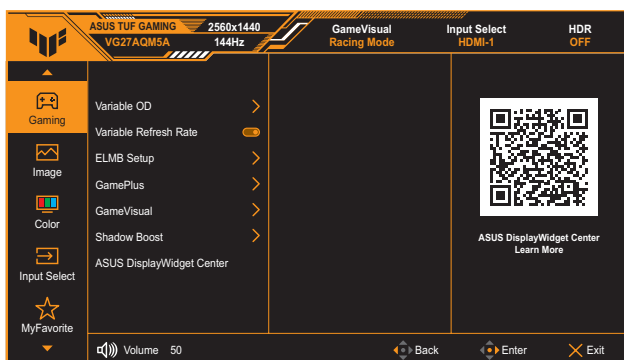
- **To connect the HDMI/DisplayPort cable:**
 - a. Plug one end of the HDMI/DisplayPort cable to the monitor's HDMI/DisplayPort jack.
 - b. Connect the other end of the HDMI/DisplayPort cable to your device's HDMI/DisplayPort jack.
- **To use the power cord:** Connect one end of the power cord to the power adapter and the other end to a power outlet.










2.6 Turning on the monitor

Press the power button . See page 1-2 for the location of the power button. The power indicator  lights up in white to show that the monitor is **ON**.

3.1 OSD (On-Screen Display) menu

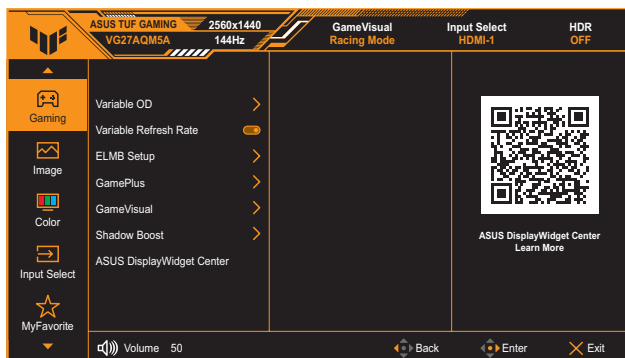
3.1.1 How to reconfigure



1. Press the  button to activate the OSD menu.
2. Move the  button up/down to navigate through the functions. Highlight the desired function and press the  button to activate it. If the function selected has a sub-menu, move the  button up/down again to navigate through the sub-menu functions. Highlight the desired submenu function and press the  button or move the  button right to activate it.
3. Move the  button up/down to change the settings of the selected function.
4. To exit and save the OSD menu, press the  button or move the  button left repeatedly until the OSD menu disappears. To adjust other functions, repeat steps 1-3.

3.1.2 OSD function introduction

1. Gaming



- **Variable OD:** Speeds up the response time by Over Drive technology. Including Level 0~Level 5.
- **Variable Refresh Rate:** Allows an Adaptive-Sync supported graphics source to dynamically adjust display refresh rate based on typical content frame rates for power efficient, virtually stutter free and low-latency display update.



- **Variable Refresh Rate** can only be activated within 48Hz~300Hz for both HDMI and DisplayPort.
 - For supported GPUs, minimum PC system and driver requirements, please contact the GPU manufactures.
 - The following function will be disabled when **Variable Refresh Rate** is **On**:
 - ELMB
-
- **ELMB Setup:**
 - * **ELMB:** When **Variable Refresh Rate** is **Off**, this function can only be activated when the refresh rate is higher than 100Hz.
 - * **ELMB SYNC:** Allows you to turn on the function when **Variable Refresh Rate** is **On**. This function eliminates screen tearing, reduces ghosting and motion blur when playing games..
 - * The following functions will be disabled when **ELMB** or **ELMB SYNC** is **On**:
 - Aspect Control
 - HDR Setting
 - Blue Light Filter
 - **GamePlus:** See page 1-4 for details.
 - **GameVisual:** See page 1-5 for details.
 - **Shadow Boost:** Dark color enhancement adjusts monitor gamma curve to enrich the dark tones in an image, making dark scenes and objects much easier to be seen.



- This function is only available in Racing mode, RTS/RPG mode, FPS mode, or sRGB mode.

- **ASUS DisplayWidget Center:** Displays a QR code for you to access the information about ASUS DisplayWidget Center.

2. Image

Adjust the image settings.



- **Brightness:** The adjusting range is from 0 to 100.
- **Contrast:** The adjusting range is from 0 to 100.
- **HDR Setting:** Set the HDR mode to ASUS Gaming HDR, ASUS Cinema HDR, or Console HDR. The HDR brightness can be adjusted when the Brightness Adjustable function is enabled.



- When detecting HDR content, an “HDR ON” message will pop up. When displaying HDR content, the following function(s) are not available: ELMB, GameVisual, Shadow Boost, Brightness, Contrast, ASCR, Aspect Control, Blue Light Filter, Color Temp., Gamma, and Saturation.

- **ASCR:** Turns on/off the ASCR (ASUS Smart Contrast Ratio) function.



- This function is only available under **Scenery Mode**, **Cinema Mode**, **RTS/RPG Mode** or **FPS Mode**.

- **Aspect Control:** Select the aspect ratio and adjust the screen position.

- **Blue Light Filter:**

- * **Level 0:** No change.

- * **Level 1~4:** The higher the level, the less blue light is scattered. When Blue Light Filter is activated, the default settings of Racing Mode will be automatically imported. Between Level 1 to Level 3, the Brightness function is user-configurable. Level 4 is optimized setting. It is compliance with TUV Low Blue Light Software Solution Certification. The Brightness function is not user-configurable.



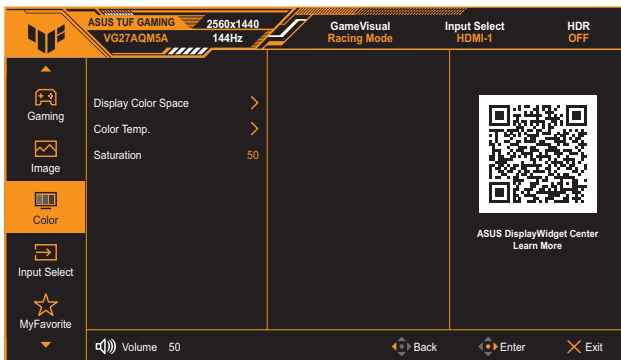
Please refer to the following to alleviate eye strains:

- Users should take some time away from the display if working for long hours. It is advised to take short breaks (at least 5 mins) after around 1 hour of continuous working at the computer. Taking short and frequent breaks is more effective than a single longer break.
- To minimize eye strain and dryness in your eyes, users should rest the eye periodically by focusing on objects that are far away.
- Eye exercises can help to reduce eye strain. Repeat these exercises often. If eye strain continues please consult a physician. Eye exercises: (1) Repeating look up and down (2) Slowly roll your eyes (3) Move your eyes diagonal.
- High energy blue light may lead to eye strain and AMD (Age-Related Macular Degeneration). Blue light Filter to reduce 70% (max.) harmful blue light to avoiding CVS (Computer Vision Syndrome).

- **VividPixel:** Enhances the outline of the displayed picture and generates high-quality images on screen.

3. Color

Set a desired color setting from this menu.

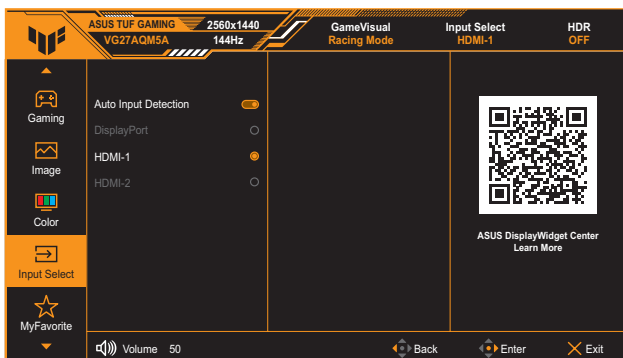


- **Display Color Space:** Selects the color space for the monitor color output.
- **Color Temp.:** Contains 4 modes including **Warm**, **Normal**, **Cool**, and **User Mode**.

- **Saturation:** The adjusting range is from 0 to 100.

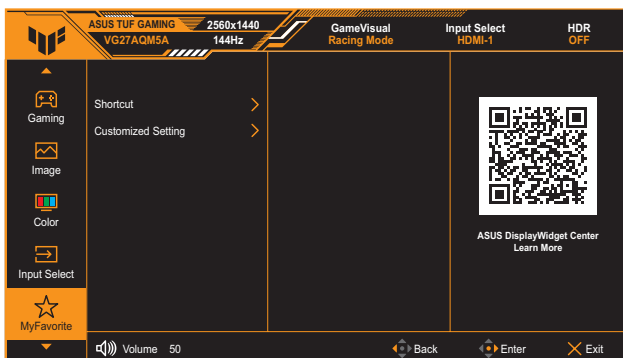
4. Input Select

In this function, you can select your desired input source or allow to automatically detect the input source.



5. MyFavorite

Adjust **Shortcut** and **Customized Setting** from this main function.



- **Shortcut 1/Shortcut 2:** Sets the shortcut functions for shortcut buttons.

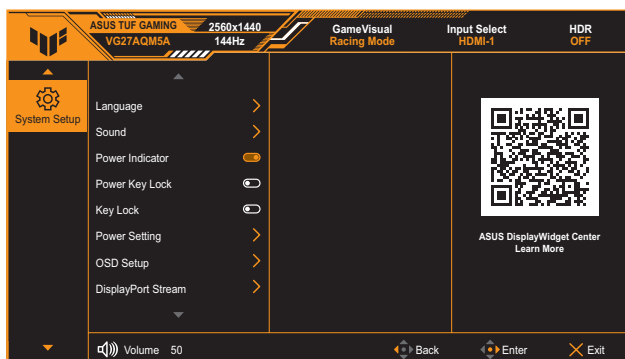


- When a certain function is selected or activated, your shortcut button may not support. Available function choices for shortcut: **GamePlus, GameVisual, Variable OD, Brightness, Mute, Shadow Boost, Contrast, Input Select, HDR Setting, Blue Light Filter, Color Temp., Volume, and Customized Setting-1/Customized Setting-2.**

- **Customized Setting:** Loads/Saves all settings on the monitor.

6. System Setup

Adjust the system configuration.



- **Language:** Selects an available language for the OSD menu. The options include English, French, German, Spanish, Italian, Dutch, Russian, Polish, Czech, Croatian, Hungarian, Romanian, Portuguese, Turkish, Simplified Chinese, Traditional Chinese, Japanese, Korean, Persian, Thai, Indonesian, Ukrainian, and Vietnamese.
- **Sound:**
 - * **Volume:** Adjusts the volume level from 0 to 100.
 - * **Mute:** If checked, mutes the volume.
- **Power Indicator:** Turns the power LED indicator on/off.
- **Power Key Lock:** Enables or disables the power key.
- **Key Lock:** Enable this function to disable all function keys. Press the **Navigation** button down for more than five seconds to cancel the key lock function.
- **Power Setting:** Sets the power mode. If the setting is set to **Performance Mode**, it may result in higher power consumption. On the other hand, if the setting is set to **Power Saving Mode**, it may cause limited luminance performance.
- **OSD Setup:**
 - * Sets the OSD menu position.
 - * Adjusts the OSD timeout from 10 to 120 seconds.
 - * Adjusts the OSD background from opaque to transparent.
 - * Enables or disables the DDC/CI function.

- **DisplayPort Stream:** Selects DisplayPort 1.2 or DisplayPort 1.4 according to the graphic card DP version.
- **DSC Support:** Enables/Disables the DSC (Display Stream Compression) function.
- **ASUS Power Sync:** Optimizes the performance of ASUS NUC devices by eliminating cable clutter, enhancing power delivery efficiency, and providing superior device connectivity for an improved user experience.
- **Information:** Shows the monitor information.
- **All Reset:** Select **YES** to revert all settings to the factory default mode.

3.2 Specifications

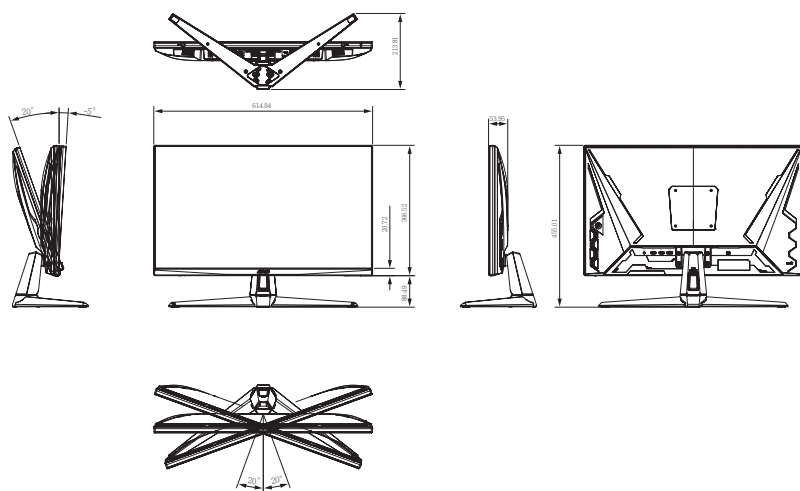
Model	VG27AQM5A
Panel type	TFT LCD
Panel size	27.0 inches (68.6 cm) diagonal
Max. resolution	2560 (H) x 1440 (V) pixels
Pixel pitch	0.2331 mm x 0.2331 mm
Brightness (typ.)	300 cd/m ²
Contrast Ratio (typ.)	1300 :1
Contrast Ratio (max.)	100,000,000:1
Viewing angle (CR ≤ 10)	178°(V); 178°(H)
Display colors	16.7M colors (8 bits)
Response time (typ.)	0.3 ms GTG
Color temperature selection	4 color temperatures
Digital input	HDMI v2.1 x 2, DisplayPort v1.4 x 1, Audio out x 1
Earphone jack	Yes
Audio input	No
Speaker (built-in)	2 W x 2 Stereo, RMS
Colors	Black
Power LED	White (On)/Amber (Standby)
Tilt	+20° ~ -5°
Pivot	No
Swivel	+20° ~ -20°
Height adjustment	No
VESA wall mounting	100 x 100 mm
Kensington lock	Yes
Voltage rating	AC 100 ~ 240V at 50/60Hz
Power consumption	<33W**
Standby power consumption	< 0.5 W
Power off power consumption	< 0.3 W
Temperature	Operating temperature: 0 ~ 40°C Non-operating temperature: -20 ~ 60°C
Dimension (W x H x D) without stand	61.5 x 36.7 x 5.4 cm
Dimension (W x H x D) with stand	61.5 x 45.5 x 21.4cm

Model	VG27AQM5A
Box dimension (W x H x D)	68.6 x 47.5 x 16.0 cm
Net weight (incl. stand)	4.6 kg
Net weight (without stand)	3.6 kg
Gross Weight (Esti.)	6.4 kg
Muti-language	23 Languages (English, French, German, Spanish, Italian, Dutch, Russian, Polish, Czech, Croatian, Hungarian, Romanian, Portuguese, Turkish, Simplified Chinese, Traditional Chinese, Japanese, Korean, Persian, Thai, Indonesian, Ukrainian, and Vietnamese)
Accessories	Power Cord, DP cable, Warranty Card, QSG
Compliance and Standards	cTUVus, CU, CB, CE, ErP, FCC, ICES-3, EU Energy label, CEC, CCC, RCM, BSMI, VCCI, PSE, RoHS, J-MOSS, AU MEPS, WEEE, Windows 8.1/10/11 WHQL, CEL, KC, KCC, e-Standby, PSB, TUV flicker free and low blue light, VN MEPS, UkrSEPRO, Ukraine Energy


***Specifications subject to change without notice.**

**** Measuring a screen brightness of 200 nits without audio/ USB/ Card reader connection.**

3.3 Outline dimensions



3.4 Troubleshooting (FAQ)

Problem	Possible Solution
Power LED is not ON	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• Adjust the Contrast and Brightness settings via OSD.
Screen image bounces or a wave pattern is present in the image	<ul style="list-style-type: none">• 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)	<ul style="list-style-type: none">• Inspect the signal cable and make sure that none of the pins are bent.• Perform Reset via OSD.• Select the appropriate Color Temperature via OSD.
No sound or sound is low	<ul style="list-style-type: none">• Adjust the volume settings of both your monitor and computer.• Make sure the computer sound card driver is properly installed and activated.

3.5 Supported timing list

Resolution Frequency	
HDMI	DP
640x480@60Hz	640x480@60Hz
640x480@75Hz	640x480@75Hz
720x480@60Hz	720x480@60Hz
720x576@50Hz	720x576@50Hz
800x600@60Hz	800x600@60Hz
800x600@75Hz	800x600@75Hz
1024x768@60Hz	1024x768@60Hz
1024x768@75Hz	1024x768@75Hz
1280x720@50Hz	1280x720@50Hz
1280x720@60Hz	1280x720@60Hz
1280x960@60Hz	1280x960@60Hz
1280x1024@60Hz	1280x1024@60Hz
1600x1200@60Hz	1600x1200@60Hz
1920x1080@24Hz	1920x1080@50Hz
1920x1080@25Hz	1920x1080@60Hz
1920x1080@30Hz	1920x1080@100Hz
1920x1080@50Hz	1920x1080@120Hz
1920x1080@60Hz	1920x1080@240Hz
1920x1080@100Hz	1920x1080@300Hz
1920x1080@120Hz	2560x1440@60Hz
1920x1080@240Hz	2560x1440@120Hz
1920x1080@300Hz	2560x1440@144Hz
2560x1440@60Hz	2560x1440@165Hz
2560x1440@120Hz	2560x1440@240Hz
2560x1440@144Hz	2560x1440@300Hz
2560x1440@240Hz	
2560x1440@300Hz	
3840x2160@24Hz	
3840x2160@25Hz	
3840x2160@30Hz	
3840x2160@50Hz	
3840x2160@60Hz	
3840x2160@100Hz	
3840x2160@120Hz	