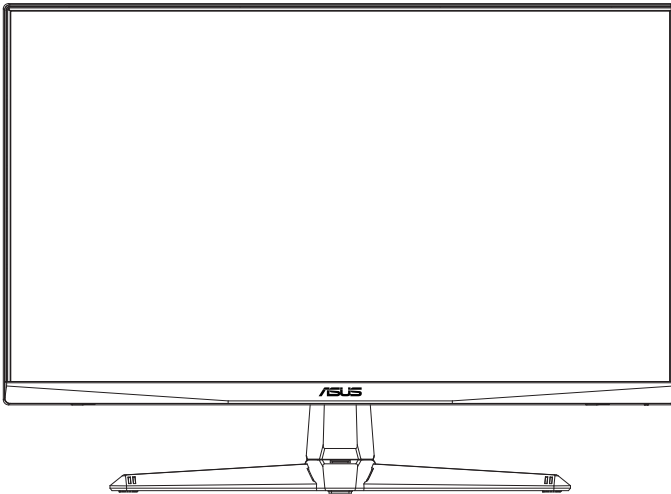




VG249QE5A Series LCD Monitor

User Guide



HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

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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 manufacturer's 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 to 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.

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.

The device may fall, causing serious personal injury or death. To prevent injury, this device must be securely attached to the floor/wall in accordance with the installation instructions.



Declaration of Conformity

This device complies with the requirements set out in the Council Directive on the Approximation of the Laws of the Member States relating to Electromagnetic Compatibility (2014/30/EU), Low-voltage Directive (2014/35/EU), REGULATION (EU) 2024/1781 and RoHS directive (2011/65/EU). This product has been tested and found to comply with the harmonized standards for Information Technology Equipment, these harmonized standards published under Directives of Official Journal of the European Union.

WEEE Symbol Statement

This symbol on the product or on its packaging indicates that this product must not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or the shop where you purchased the product.



EEE yönetmeliğine uygundur

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.
- 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.
- Provide an earthing connection before the mains plug is connected to the mains. And, when disconnecting the earthing connection, be sure to disconnect after pulling out the mains plug from the mains.

WARNING

Usage of other than specified head- or earphones can result in hearing loss due to excessive sound pressures.

Please confirm the distribution system in building installation shall provide the circuit breaker rated 120/240V, 20A (maximum).

If provided with a 3-pin attachment plug on the power cord, plug the cord into a grounded (earthed) 3-pin outlet. Do not disable the power cord grounding pin, for example, by attaching a 2-pin adapter. The grounding pin is an important safety feature.

Stability Hazard.

The product may fall, causing serious personal injury or death. To prevent injury, this product must be securely attached to the floor/wall in accordance with the installation instructions.

A product may fall, causing serious personal injury or death. Many injuries, particularly to children, can be avoided by taking simple precautions such as:

ALWAYS use cabinets or stands or installation methods recommended by the manufacturer of the product set.

ALWAYS use furniture that can safely support the product.

ALWAYS ensure the product is not overhanging the edge of the supporting furniture.

ALWAYS educate children about the dangers of climbing on furniture to reach the product or its controls.

ALWAYS route cords and cables connected to your product so they cannot be tripped over, pulled or grabbed.

NEVER place a product in an unstable location.

NEVER place the product on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the product to a suitable support.

NEVER place the product on cloth or other materials that may be located between the product and supporting furniture.

NEVER place items that might tempt children to climb, such as toys and remote controls, on the top of the product or furniture on which the product is placed.

If the existing product is going to be retained and relocated, the same considerations as above should be applied.

Excessive sound pressure from earphones and headphones can cause hearing loss. Adjustment of the equalizer to maximum increases the earphones and headphones output voltage and therefore the sound pressure level.

Restriction on Hazardous Substances statement (India) This product complies with the “India E-Waste (Management) Rules, 2016” and prohibits use of Lead, Mercury, Hexavalent Chromium, polybrominated biphenyls(PBBs) and polybrominated diphenyl ethers(PBDEs) in concentration exceeding 0.1% by weight in homogenous materials and 0.01% by weight in homogenous materials for cadmium, except of exemptions listed in Schedule 2 of the Rule.

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	Online Support http://support.asus.com/	Online Support http://support.asus.com/

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.

3. **Protect your eyes with ASUS EYE CARE Monitors**

The latest ASUS monitors feature exclusive Blue Light Filter and Flicker free technologies to keep your eyes healthy in today's digital world. Refer to

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



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 you!

1.2 Package contents

Check your package for the following items:

- ✓ LCD Monitor
- ✓ Monitor Stand
- ✓ Monitor Base
- ✓ Quick Start Guide
- ✓ Warranty Card
- ✓ Power Cord
- ✓ HDMI Cable
- ✓ 1x L-shaped Screwdriver (optional)
- ✓ 4x Screws

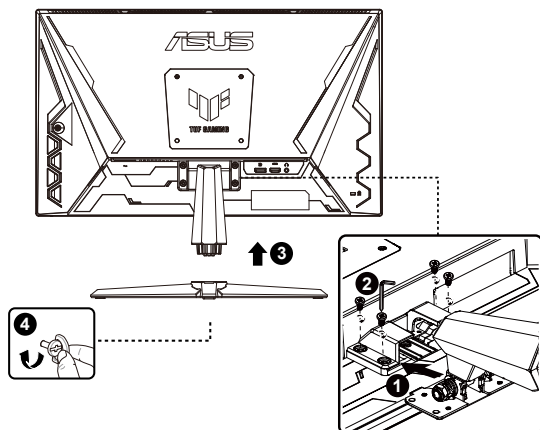


-
- If any of the above items is damaged or missing, contact your retailer immediately.
-

1.3 Assembling the monitor

To assemble the monitor

1. Align the screw hole on the arm with the bundled screw on the base. Then insert the base into the arm.
2. Fix the base to the arm by fastening the bundled screw.

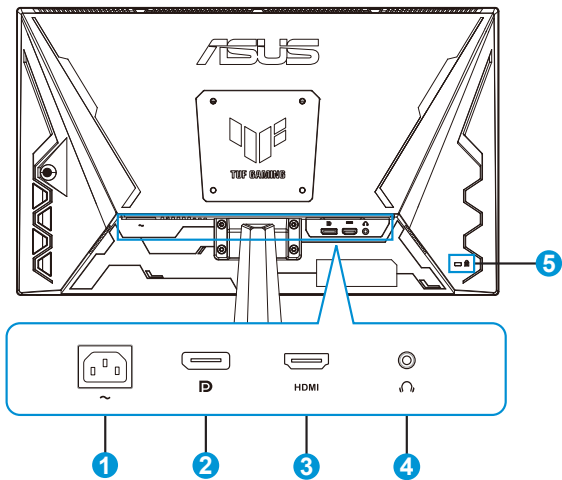


*Screw size: M4 x 8mm

*Base screw size: M6 x 17mm

1.4 Connect cables

1.4.1 Rear of the LCD monitor

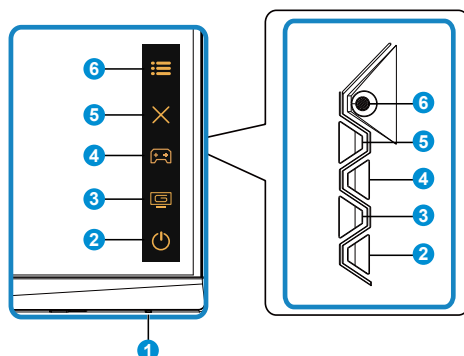


1. AC-IN Port
2. DP - in Port
3. HDMI Port
4. Earphone - out
5. Kensington Lock

1.5 Monitor introduction

1.5.1 Using the Controls button

Use the control button on the back of the monitor to adjust the image settings.



1. Power Indicator:

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

Status	Description
White	ON
Amber	Standby mode
OFF	OFF

2. Power Button:

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

3. GameVisual Button:

This is shortcut 2.

- Press this Shortcut to switch from nine video preset modes (Scenery Mode, Racing Mode, Cinema Mode, RTS/RPG Mode, FPS Mode, sRGB Mode, MOBA Mode, Night Vision and User Mode) with GameVisual™ Video Intelligence Technology.

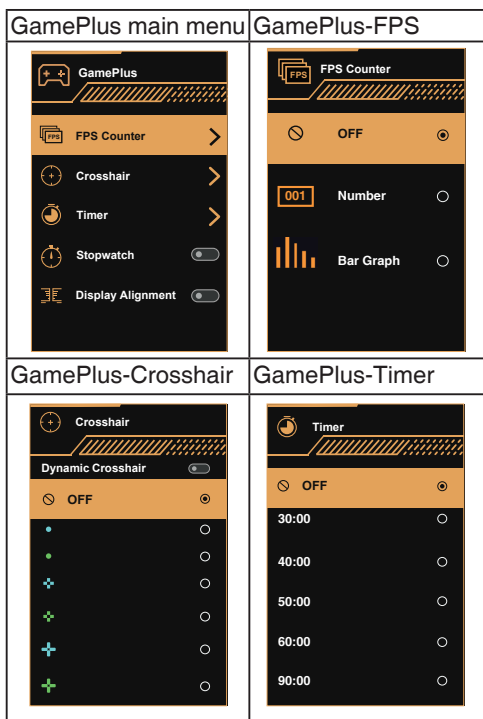
4. GamePlus Button:

This is shortcut 1

- 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:

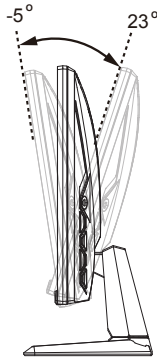
- Press **GamePlus** Button to enter the GamePlus main menu.
- Active FPS Counter, Crosshair, Timer, Stopwatch or Display Alignment.
- Move the  button up/down to select and press  to confirm the function needed. Press **X** to go off, and exit.
- Crosshair/Timer/Stopwatch/FPS Counter is movable by pressing .



5. **X** Close Button:
 - Exit the OSD menu.
6.  (5-way) Button:
 - Turn on the OSD menu. Enact the selected OSD menu item.
 - Increase/Decrease values or moves your selection up/down/left/right.

2.1 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.
- You can adjust the monitor's angle from $+23^{\circ}$ to -5° .

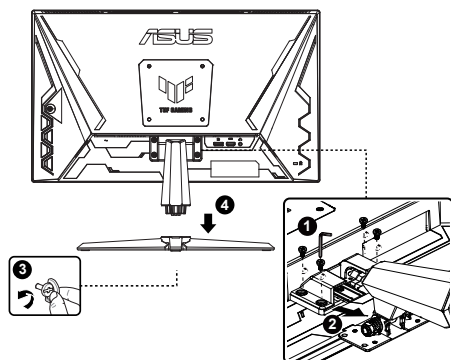


2.2 Detaching the arm/stand (for VESA wall mount)

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

To detach the arm/stand

1. Disconnect power and signal cables. Carefully put the front of the monitor face down on a clean table covered with a soft cloth to avoid damage.
2. Remove the four (4) screws securing the arm to the rear of the monitor.
3. Detach the stand (arm and base) from the monitor.



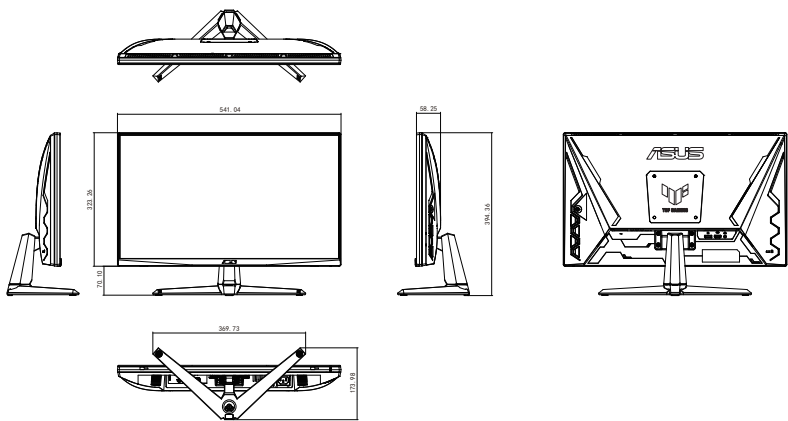
*Vesa mount: 100mm x 100mm

*Screw size: M4 x 8mm

*Base screw size: M6 x 17mm

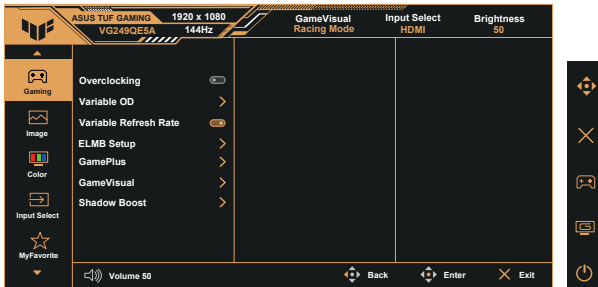
2.3 Outline dimension

Unit: mm



3.1 OSD (On-Screen Display) menu

3.1.1 How to reconfigure

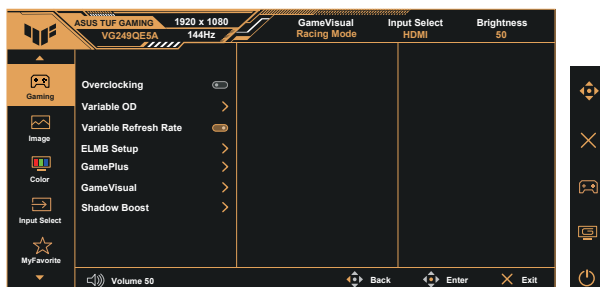


1. Press Central of 5-way to activate the OSD menu.
2. Press the ▼ and ▲ buttons to toggle between options in the Menu. As you move from one icon to another, the option name is highlighted.
3. To select the highlighted item on the menu press the Center key.
4. Press the ▼ and ▲ buttons to select the desired parameter.
5. Press the Center key to enter the slide bar and then use the ▼ or ▲ buttons, according to the indicators on the menu, to make your changes.
6. Press the ◀/▶ to move left / right menu.

3.1.2 OSD Function Introduction

1. Gaming

This function contains seven sub-functions that you can select for your preference.



- **Overclocking:** This function allows you to adjust the refresh rate.
- **Variable OD:** The adjusting range is from level 1 to level 5. The default setting is level 3.
- **Variable Refresh Rate:** Allow 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.



- For supported GPUs, minimum PC system and driver requirements, please contact the GPU manufactures.

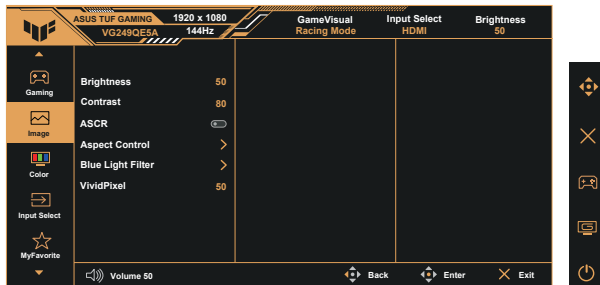
- **ELMB Setup:** Check to decrease motion blur and minimize ghosting part when on-screen objects are fast moving. ELMB is disabled if input V frequency less than 85Hz.
- **GamePlus:** Activate FPS Counter, Crosshair, Timer, Stopwatch or Display Alignment function.
- **GameVisual:** This function contains nine sub-functions that you can select for your preference.
- **Shadow Boost:** Dark color enhancement adjust monitor gamma curve to enrich the dark tones in an image making dark scenes and objects much easier be found.



- In the sRGB Mode, the Saturation, ASCR, Shadow Boost, Contrast, Blue Light Filter, Display Color Space and Color Temp. functions are not user-configurable.
- In the MOBA Mode, the Saturation, Shadow Boost and VividPixel functions are not user-configurable.

2. Image

You can adjust **Brightness**, **Contrast**, **ASCR**, **Aspect Control**, **Blue Light Filter** and **VividPixel** from this main function.



- **Brightness:** The adjusting range is from 0 to 100.
- **Contrast:** The adjusting range is from 0 to 100.
- **ASCR:** Select **ON** or **OFF** to enable or disable dynamic contrast ratio function,ASCR is Disabled when ELMB is on.
- **Aspect Control:** Adjust the aspect ratio to “16:9” and “Square”.
- **Blue Light Filter:** Adjust the energy level of blue light emitted from LED backlight.
- **VividPixel:** ASUS Exclusive Technology that brings lifelike visuals for crystal-clear and detail-oriented enjoyment. The adjusting range is from 0 to 100.



- 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 Certification. The Brightness function is not user-configurable.

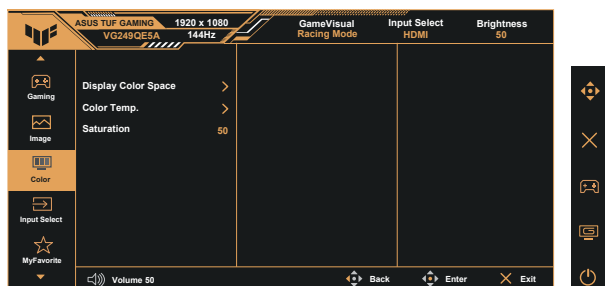


Please refer to the following to alleviate eye strains:

- 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 reduces 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).

3. Color

Select the image color you like from this function.



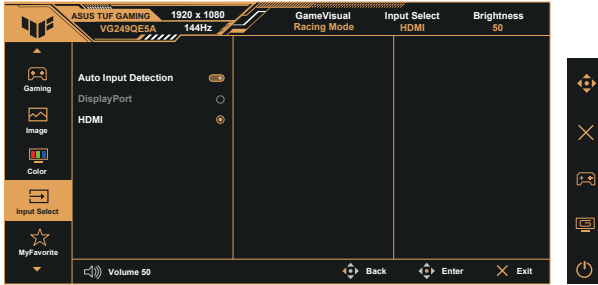
- **Display Color Space:** Contains three preset color modes **sRGB**, **DCI-P3**, and **Wide Gamut** Mode.
- **Color Temp.:** Contains three preset color modes (**Cool**, **Normal**, **Warm**) and **User** Mode.
- **Saturation:** The adjusting range is from 0 to 100.



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

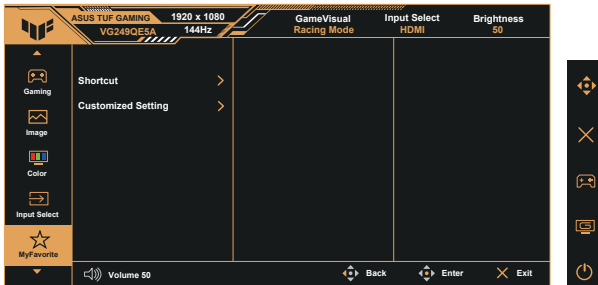
4. Input Select

Select your desired input source and toggle the Auto Input Detection function between on and off. The monitor input source will not automatically switch when the Auto Input Detection function is disabled.



5. MyFavorite

You can adjust Shortcut and Customized Setting from this main function.



- **Shortcut** : User can select from “GamePlus”, “GameVisual”, “Variable OD”, “Brightness”, “Mute”, “Shadow Boost”, “Contrast”, “Input Select”, “Blue Light Filter”, “Color Temp.”, “Volume”, “Customized Setting-1”, “Customized Setting-2” and set as shortcut key.
- **Customized Setting** : You can do your setting according to your favorite.

6. System Setup

Adjusts the system configuration.



- **Language:** Select OSD language. The selections are: **English, French, German, Spanish, Italian, Dutch, Russian, Poland, Czech, Croatia, Hungary, Romania, Portugal, Turkey, Simplified Chinese, Traditional Chinese, Japanese, Korean, Persian, Thai, Indonesian, Ukrainian and Vietnamese.**
- **Sound:** Adjust the output volume level or mute the audio.
- **Power Indicator:** Turn the power LED indicator on/off.
- **Power Key Lock:** To disable / enable power key.
- **Key Lock:** Disable all key functions. Pressing the down button for more than five seconds to disable key lock function.
- **Power Setting:** Select the power setting mode.
- **OSD Setup:** Adjust the OSD Position, OSD Timeout, Transparency, and DDC/CI of the OSD screen.
- **ASUS Power Sync:** Enables or disables the ASUS Power Sync function. To activate this function, please enable this function of the monitor via HDMI port.

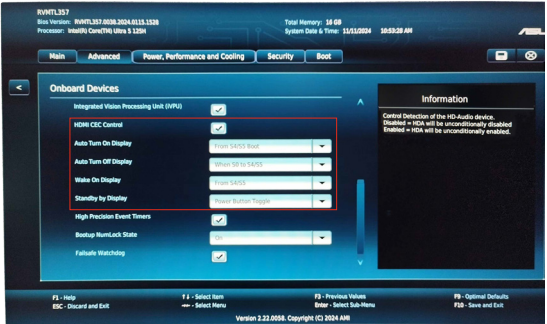
Note: This function activates only when monitor's auto source detection is off.



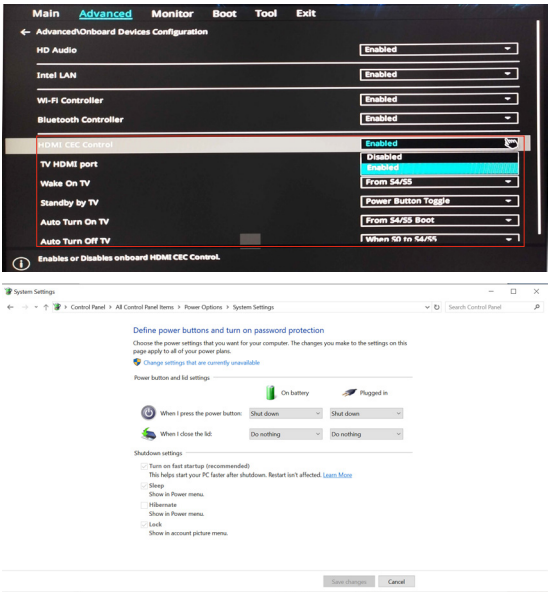
Please take a look at the ASUS website to check which devices are compatible with this function.

To enable monitor to turn on and off the hardware or vice versa, please set up your computer BIOS by the following.

- BIOS set up instruction for ASUS NUC:



- BIOS set up instruction for ASUS Mini PC:



- **Information:** Display the monitor information.
- **All Reset:** Select “Yes” to revert all settings to the factory default mode.

3.2 Specifications

Model	VG249QE5A
Panel Size	23.8"W (60.5cm)
Max. Resolution	1920x1080@146Hz
Brightness (Typ.)	300cd/m ²
Intrinsic Contrast Ratio (Typ.)	1500:1
Viewing Angle (CR=10)	178°(V) /178°(H)
Display Colors	16.7M colors (8bits)
Color Saturation (Typ.)	DCI-P3 90% / sRGB 125%
Response Time	4ms (Gray to Gray), 1ms MPRT
Satellite Speaker	2W x 2 stereo
Earphone Output	Yes
Sound from HDMI/DP	Yes
HDMI input	Yes
DisplayPort input	Yes
Power ON Consumption(Max.)	15W**
Chassis Colors	Black
Power saving mode	< 0.5W
Power off mode	< 0.3W
Tilt	-5° ~ +23°
Phys. Dimension (WxHxD)	541 x 394 x 174 mm
Phys. Dimension without stand (WxHxD) (For VESA Wall Mount)	541 x 323 x 58 mm
Box Dimension (WxHxD)	600 x 405 x 168 mm
Net Weight (Esti.)	3.3 kg
Net Weight (Esti. w/o stand)	2.7 kg
Gross Weight (Esti.)	5.0 kg
Voltage Rating	100~240V, 50/60Hz, 1.5A
Operational temperature	0~40°

* Specifications are subject to change without notice.

** 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 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.
No sound or sound is low	• Adjust the volume settings of both your monitor and computer. • Make sure the computer sound card driver is properly installed and activated.

3.4 Supported Timing List

Support Timing

Timing	Resolution	HDMI	DP
PC Timing	640x480-60Hz	V	V
PC Timing	640x480-75Hz	V	V
PC Timing	800x600-60Hz	V	V
PC Timing	800x600-75Hz	V	V
PC Timing	1024x768-60Hz	V	V
PC Timing	1024x768-75Hz	V	V
PC Timing	1280x960-60Hz	V	V
PC Timing	1280x720-60Hz	V	V
PC Timing	1280x1024-60Hz	V	V
PC Timing	1600x900-60Hz	V	V
PC Timing	1920x1080-60Hz	V	V
Video Timing	640x480-60Hz	V	V
Video Timing	720x480-60Hz	V	V
Video Timing	720x576-50Hz	V	V
Video Timing	1280x720-50Hz	V	V
Video Timing	1280x720-60Hz	V	V
Video Timing	1920x1080-50Hz	V	V
Video Timing	1920x1080-60Hz	V	V
Video Timing	1920x1080-120Hz	V	V
Video Timing	1920x1080-100Hz	V	V

Square Timing

Timing	Resolution	HDMI	DP
Detail Timing	1280x960-144Hz	V	V
Detail Timing	10240x768-144Hz	V	V
Detail Timing	1152x864-144Hz	V	V
Detail Timing	1440x1080-144Hz	V	V
Detail Timing	1728x1080-144Hz	V	V
Detail Timing(overclocking)	1280x960-146Hz	V	V
Detail Timing(overclocking)	10240x768-146Hz	V	V
Detail Timing(overclocking)	1152x864-146Hz	V	V
Detail Timing(overclocking)	1440x1080-146Hz	V	V
Detail Timing(overclocking)	1728x1080-146Hz	V	V

16:9 Timing

Timing	Resolution	HDMI	DP
Detail Timing	1920x1080-60Hz	V	V
Detail Timing	1920x1080-120Hz	V	V
Detail Timing	1920x1080-144Hz	V	V
Detail Timing(overclocking)	1920x1080-146Hz	V	V

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