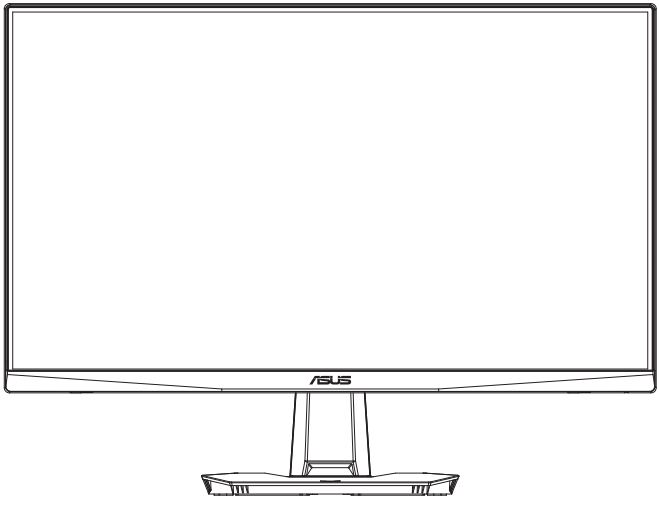
VG249QM5F Series
LCD Monitor

User Guide



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

The Waste Electrical and Electronic Equipment (WEEE) Directive (Directive 2012/19/EU) is a European Union law that aims to reduce the environmental impact of electrical and electronic equipment. It mandates producers to take responsibility for the end-of-life management of their products, promoting collection, treatment, and recycling to minimize waste and encourage resource recovery.

Do not throw your Electronic and electrical equipment in municipal waste.

The symbol of the crossed-out wheeled bin on the product or packaging indicates that this product (including any batteries it contains), must not be disposed of with your household waste.

To prevent potential harm to the environment and human health, a collection framework should be used to return, recycle, and recover waste electrical and electronic equipment (WEEE), and this product has been designed to enable the reuse of parts and facilitate the recycling of certain materials.

Improper disposal may involve risks due to the presence of hazardous substances within electrical and electronic equipment, such as lead and BFR and other harmful components.

Check your local recycling services for electronic products.

(https://esg.asus.com/en/circular-economy/resource-regeneration/global-take-back-service)



AEEE yönetmeliğine uygundur

New Mexico PFAS Labeling



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.

ASUS CONTACT INFORMATION

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Technical Support

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Support Fax	+49-2102-959911
Online Support	http://support.asus.com/

Care & Cleaning

Screen Cleaning Instructions (Including Sensors)

When cleaning displays (including sensors), special care and proper methods are required to avoid damaging the screen. Please follow the recommendations below for safe and effective cleaning.

- Required Materials
  1. Microfiber cloth: Use a soft microfiber cloth that will not scratch the screen surface.
  2. Purified water: Avoid water containing minerals or impurities.
  3. Spray bottle: Use it to lightly spray purified water onto the microfiber cloth — never directly onto the screen.
- Cleaning Procedure
  1. Power Off the Device: Before lifting, repositioning, or cleaning the display, disconnect all cables and unplug the power cord. When moving the monitor, always hold it by the edges of the display. Never lift or carry the monitor by the stand or power cable.
  2. Dry Cleaning: Turn off the monitor and unplug the power cord. Use a clean, dry microfiber cloth to gently wipe the screen surface and remove dust or loose particles.
  3. Damp Cleaning: Lightly spray a small amount of purified water onto the microfiber cloth. Do not spray liquid directly onto the screen or sensor. Gently wipe the screen surface without applying excessive pressure.
  4. Dry the Screen: Use another clean microfiber cloth to gently dry the screen surface and ensure no liquid residue remains. If necessary, repeat the cleaning process 2–3 times.
- Important Precautions
  1. Do not use alcohol-based or ammonia-based cleaners. These chemicals may damage the screen coating.
  2. Do not spray liquid directly onto the screen. Liquid may seep into the edges of the panel and damage internal components.
  3. Do not apply excessive force. Excessive pressure may damage the panel or leave scratches.
  4. Never use tissues, paper towels, kitchen towels, or regular cloth towels. These materials contain relatively coarse fibers that can easily leave fine scratches on the screen surface.

By following the instructions above, you can safely and effectively clean display panels (including sensors) while maintaining image clarity and preventing damage.

Important: Screen Protective Film Removal & Screen Maintenance Instructions

Before using your display, please carefully read the following instructions regarding the screen surface films and coatings. Improper handling may result in permanent damage that is not covered under warranty.

1. Must Be Removed: Shipping Protective Film (OLED only)

To protect the panel from scratches during transportation, the screen surface is covered with a transparent protective shipping film.

- Removal Instructions: Locate the colored pull tab, typically found at the lower-left or lower-right corner of the screen. Slowly and evenly peel off the entire protective film following the direction indicated by the tab.
- Reasons for Removal
  1. Heat Dissipation: OLED pixels generate heat during operation. If the protective film is not removed, heat may accumulate on the panel surface, potentially causing overheating, accelerated panel aging, and significantly increasing the risk of image retention or burn-in.
  2. Sensor Performance: The protective film may obstruct the ambient light sensor located beneath the display surface, resulting in abnormal automatic brightness adjustment behavior.
  3. Image Quality: The shipping film is not made from optical-grade material. Removing it is necessary to experience the OLED panel's intended contrast ratio and color accuracy.

2. Do NOT Remove: Polarizer Layer & Functional Coatings

After removing the transparent shipping protective film with the pull tab, the remaining dark layer tightly bonded to the screen surface is part of the panel structure itself.

- **WARNING: Do not attempt to peel, scrape, or remove the dark film layer using fingernails, blades, or any tools.This layer is the panel's polarizer or anti-reflective coating (AR/AG coating), which is a critical component of the display system.**
- **Consequences: Removing or damaging this layer may cause the display to malfunction, including a completely white screen or abnormal color distortion. Such damage is considered physical misuse and will immediately void the product warranty.**

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 (Optional)
- ✓ DP Cable (Optional)
- ✓ 1x L shape screw driver (Optional)
- ✓ 4x Screws

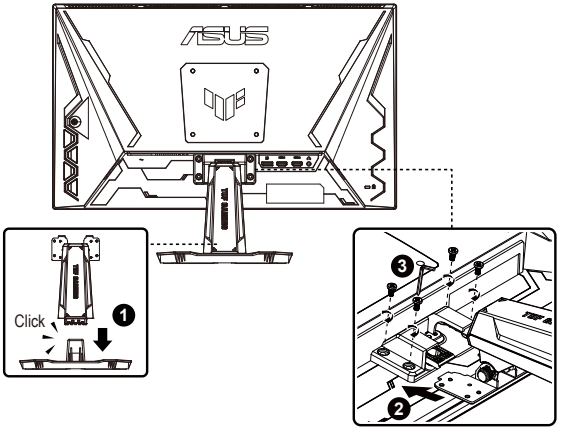


- If any of the above items is damaged or missing, contact your retailer immediately.

1.3 Assembling the monitor

To assemble the monitor:

1. Insert the arm into the base until it clicks into place. Then use a screwdriver to tighten the assembly screws, and secure the arm to the display tightly.
2. Adjust the monitor to the angle that is most comfortable for you.



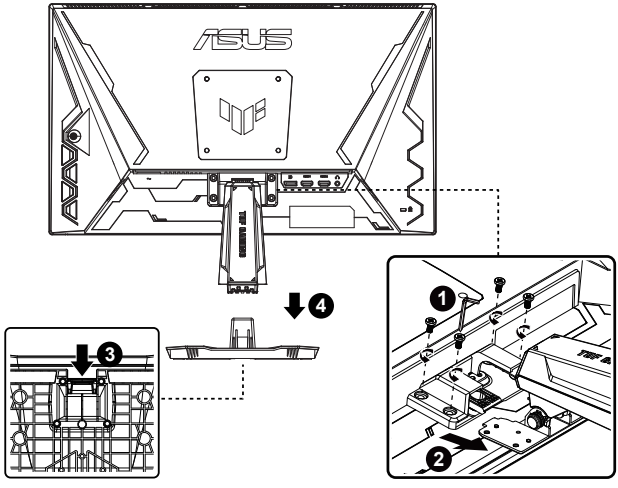
*Screw size:M4 x 8mm

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

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

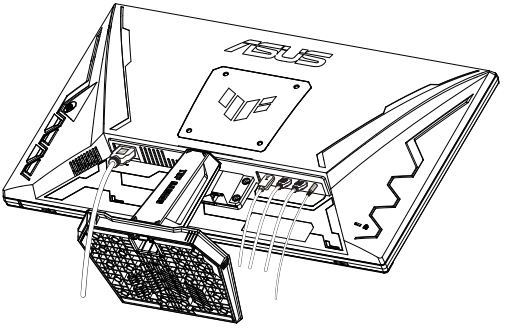
To detach the arm/stand:

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



- The VESA wall mount kit (100 x 100 mm) is purchased separately.
- Use only the UL Listed Wall Mount Bracket with minimum weight/load 28.8 kg (Screw size: M4 x 8mm).

1.5 Cable management(include I/O port)



- **To connect the HDMI/DisplayPort cable:**

  a. Plug one end of the HDMI/DisplayPort cable to the monitor's HDMI/DisplayPort jack.

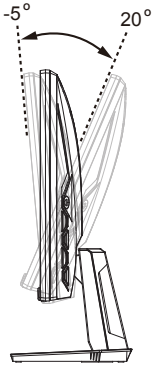
  b. Connect the other end of the HDMI/DisplayPort cable to your device's HDMI/DisplayPort jack.

When these cables are connected, you can choose the desired signal from the Input Select item in the OSD menu.

If you need to replace the power cord or the connection cable(s), please contact ASUS customer service.

1.6 Adjusting the monitor

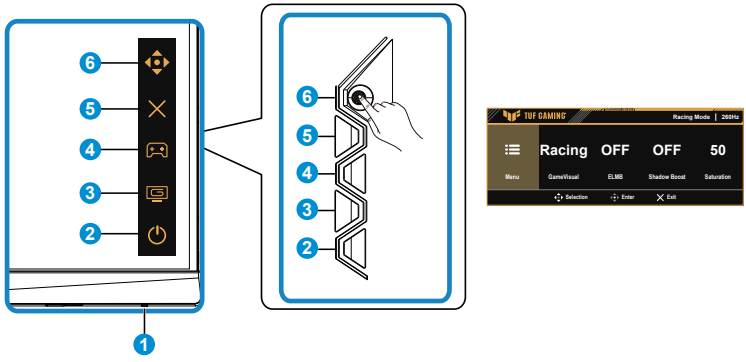
- For optimal viewing, we recommend that you look at the full face of the monitor, then adjust the monitor to the angle that is most comfortable for you.
- Hold the stand to prevent the monitor from falling when you change its angle.
- You can adjust the monitor's angle from +20˚ to -5˚ .



2.1 Monitor introduction

2.1.1 Front view

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:

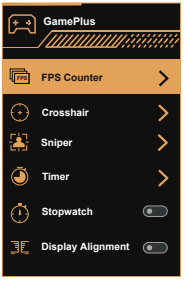
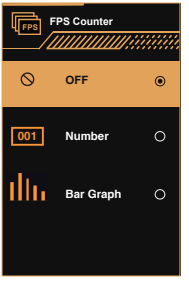
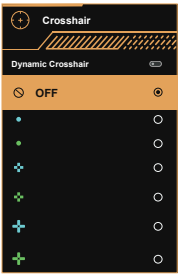
   This is shortcut 1

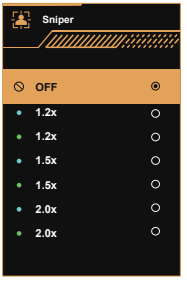
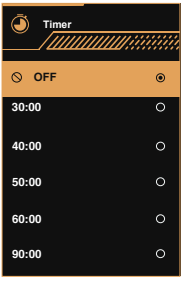
   - **GamePlus**: The GamePlus Function provides a toolkit and creates a better gaming environment for users when playing different types of games. Particularly, Crosshair function is specially designed for new gamers or beginners interested in First Person Shooter (FPS) games.

     To active GamePlus:

     - Press **GamePlus** Button to enter the GamePlus main menu.

- Active FPS Counter, Crosshair, Sniper, Timer, Stopwatch or Display Alignment.
- Move the button up/down to select and press to confirm the function needed. Press ✕ to go off, and exit.
- Crosshair/Timer/Stopwatch/FPS Counter is movable by pressing 5-way key.

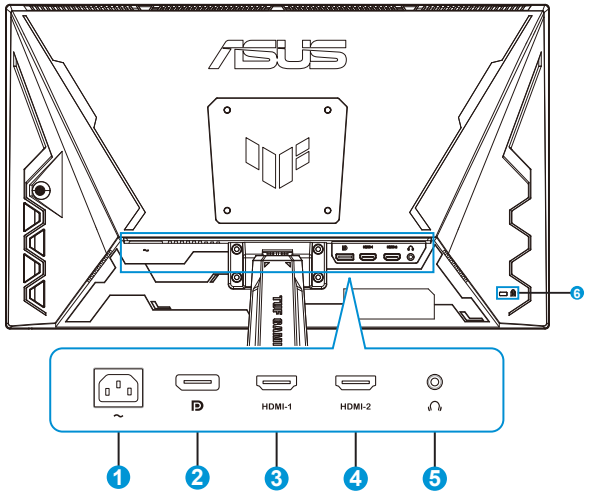
GamePlus main menu	GamePlus-FPS Counter	GamePlus-Crosshair
		

GamePlus-Sniper	GamePlus-Timer	
		

5. ✕ 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

2.1.2 Back view

Rear of the LCD monitor

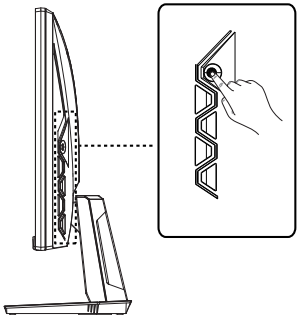


1. AC-IN Port
2. DP - in Port
3. HDMI-1 Port
4. HDMI-2 Port
5. Earphone - out Port
6. Kensington Lock

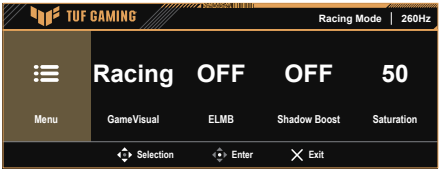
3.1 OSD (On-Screen Display) menu

3.1.1 How to reconfigure

The 5-way controller is located at the rear of the monitor. While sitting in front of the monitor, move the controller to the directions instructed by the on-screen icons for menu navigation and operations.

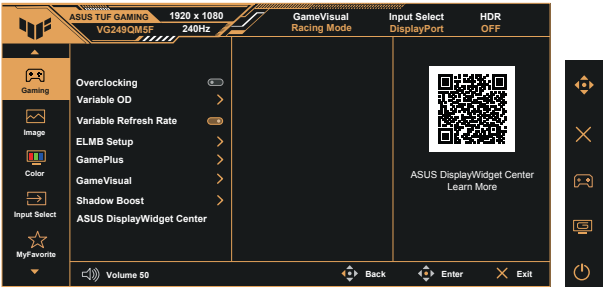


Press the (5-way) button to activate the OSD menu.



- When the Quick Menu is activated

OSD (On Screen Display) icon	5-way controller operation	Function
Quick Menu	Move left / right	Switches to the previous / next menu setting.
	Move up / down	Selects the previous / next menu item.
		Selects the desired parameter
	Press (center)	Confirms the selection



- When the Menu is activated

OSD (On Screen Display) icon	5-way controller operation	Function
Menu	Move up / down	Selects the previous / next menu item.
		Selects the desired parameter
	Move left / right	Switches to the left / right menu.
	Press (center)	Confirms the selection

Customizing the Quick Menu

The Quick Menu contains four customizable shortcuts that allow fast access to frequently used settings. You may change these shortcuts as desired.

1. Press the 5-way controller to bring up the Quick Menu.

2. Navigate to Menu > My Favorite > Quick Menu.

3. Select Mode 1, Mode 2, Mode 3, or Mode 4 to set a function.

-To keep the Quick Menu shorter, select None to hide that shortcut.

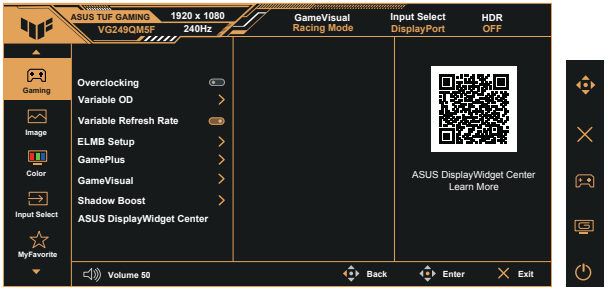
-Do not select the same function to multiple positions.

-A shortcut will appear grayed out if it is not supported under the current mode.

3.1.2 OSD Function Introduction

Set **Power Setting** to **Performance Mode** to enable function.

3.1.2.1 Gaming



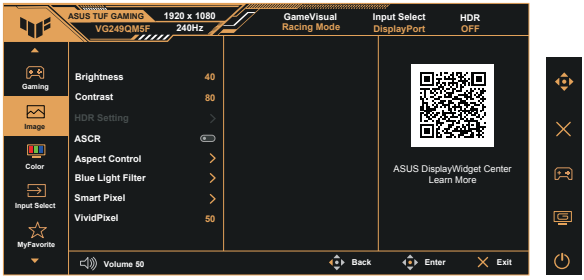
Menu Option		Description	Remark
Overclocking	On/Off	Enabling overclocking allows the monitor to reach its maximum supported refresh rate(260Hz for DP , 255Hz for HDMI), delivering smoother and more responsive visuals.	1.Overclocking may cause screen fickering. To reduce such effects, disconnect the cable and use the monitor OSD to try again with a safer Max Refresh Rate. 2.Overclocking ability is dependent on the graphics card.
Variable OD	Level 5 / Level 4 / Level 3 / Level 2 / Level 1 / OFF	Improves screen response time with 5 adjustable Over Drive levels, making fast-moving scenes look sharper and smoother.	
Variable Refresh Rate	On/Off	Works with Adaptive-Sync, G-Sync Compatible, and FreeSync graphics sources to dynamically match the display's refresh rate to content frame rates. This reduces stutter and input lag while saving power.	1. When the input source is DP, Variable Refresh Rate can only be activated within 48Hz~240Hz when Overclocking is OFF, 48Hz~260Hz when Overclocking is ON. 2. When the input source is HDMI, Variable Refresh Rate can only be activated within 48Hz~240Hz when Overclocking is OFF, 48Hz~255Hz when Overclocking is ON. 3.For supported GPUs, minimum PC system and driver requirements, please contact the GPU manufactures. 4.When Variable Refresh Rate is enabled, the following functions will be unavailable : ELMB.

Menu Option		Description	Remark
ELMB Setup	ELMB	The ELMB Setup menu allows users to configure motion blur reduction features for fast-moving content. It includes ELMB and ELMB Sync, depending on the input signal and refresh rate conditions. ELMB ELMB eliminates screen tearing, reduces ghosting, and minimizes motion blur during gameplay.	1.To activate ELMB, please turn off VRR first. 2.Requires refresh rate higher than 85Hz. 3.When ELMB is enabled, the following functions will be unavailable:Variable Refresh Rate,ELMB Sync,Brightness ,Aspect Control ,ASCR,Blue Light Filter,Variable OD,HDR Setting,Sniper.
ELMB Setup	ELMB SYNC	ELMB Sync ELMB SYNC allows you to enable motion blur reduction while Variable Refresh Rate (VRR) is ON. It helps eliminate screen tearing, reduce ghosting, and minimize motion blur during fast-paced gameplay.	1.When ELMB sync is enabled, the following functions will be unavailable:ELMB ,Brightness ,Aspect Control ,ASCR,Blue Light Filter ,HDR Setting.
ELMB Setup	Clarity Level		1.When Clarity Level or Clarity Position is enabled, the following functions will be unavailable: Variable Refresh Rate,ELMB Sync,Brightness ,Aspect Control,ASCR,Blue Light Filter ,Variable OD,HDR Setting.
ELMB Setup	Clarity Position	Clarity Level Adjusts the sharpness level of the ELMB effect. There are 5 clarity levels available, allowing you to fine-tune motion clarity based on your preference. Clarity Position Adjusts where the blur-reduction effect appears on screen. Choose from 3 levels — Top, Middle, or Bottom — to match different types of content.	

Menu Option		Description	Remark
GamePlus	FPS Counter	The GamePlus function provides a set of built-in gaming tools to enhance your in-game experience. It includes the following features: FPS Counter Displays real-time frames per second (FPS) to indicate how smoothly the game is running. You can choose to show the FPS as a number or a bar graph on screen. Crosshair Provides 6 built-in crosshair styles, so you can choose the one that best fits your game. Also includes a Dynamic Crosshair option that adjusts the crosshair automatically based on gameplay. Sniper Sniper mode is designed for first-person shooter games (only available when HDR is OFF). You can choose from three magnification levels — 1.2×, 1.5×, and 2.0× — with different alignment styles. Timer Displays a countdown timer on the upper-left corner of the screen to help you track gameplay or rest time. You can choose from the following preset durations:30:00, 40:00, 50:00, 60:00, or 90:00 minutes. Stopwatch Displays a stopwatch on the upper-left corner of the screen to help you track elapsed time during gameplay or activities. The stopwatch starts from 00:00 and counts upward until manually stopped. Display Alignment Displays alignment lines on all four sides of the screen to help you align multiple monitors more precisely and easily.	
GamePlus	Crosshair		
GamePlus	Sniper		
GamePlus	Timer		
GamePlus	Stopwatch		
GamePlus	Display Alignment		

Menu Option		Description	Remark
GameVisual	Scenery Mode	GameVisual provides a set of preset display modes optimized for different usage scenarios, using ASUS GameVisual™ Video Intelligence Technology. Easily switch between modes to match your content. Scenery Mode Optimized for displaying landscapes and outdoor photos. Racing Mode Best suited for fast-paced racing games. Cinema Mode Ideal for watching movies and cinematic content. RTS/RPG Mode Designed for Real-Time Strategy and Role-Playing games. FPS Mode Tailored for First-Person Shooter games to enhance visibility in dark scenes. sRGB Mode Perfect for viewing photos and graphics with accurate color reproduction. MOBA Mode Best choice for Multiplayer Online Battle Arena games. Night Vision Enhances visibility in dark environments or low-light scenes. User Mode Allows manual adjustment of more image settings like brightness, contrast, and color.	
GameVisual	Racing Mode		
GameVisual	Cinema Mode		
GameVisual	RTS/RPG Mode		
GameVisual	FPS Mode		
GameVisual	sRGB Mode		
GameVisual	MOBA Mode		
GameVisual	Night Vision		
GameVisual	User Mode		
Shadow Boost	Dynamic Shadow Boost/Level 3/Level 2/ Level 1/Off	Enhances visibility in dark areas by adjusting the monitor's gamma curve, making dark scenes and objects easier to see without overexposing brighter areas. Offers three levels (Level 1 / 2 / 3) of adjustment to suit different preferences. Includes a Dynamic Shadow Boost option that automatically optimizes dark scenes based on the content.	
ASUS DisplayWidget Center	QRcode	Refer to Chapter 3.2	

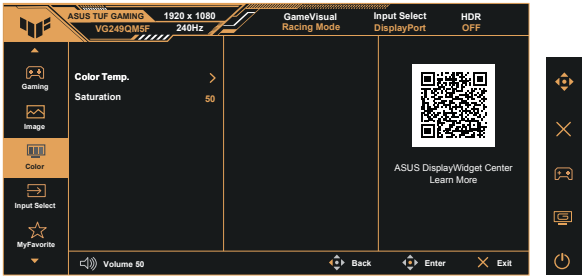
3.1.2.2 Image



Menu Option		Description	Remark
Brightness	Adjustable from 0~100	Adjust screen brightness. When HDR is enabled, only adjustment via Adjustable HDR is supported.	ELMB function not supported.
Contrast	Adjustable from 0~100	Adjust contrast to enhance image detail and depth.	Not adjustable in HDR mode.
HDR Setting	Gaming HDR	Function Description: Delivers richer details and more realistic colors, especially noticeable in scenes with strong contrast between light and dark areas. Gaming HDR: A mode designed for gamers. Cinema HDR: Ideal for movies and cinematic content. Console HDR:Tailored for gaming consoles.	1. In HDR mode, brightness is adjusted automatically and cannot be set manually. 2. When HDR is enabled,the following functions are unavailable: ELMB、Sniper、GameVisual、Shadow Boost、Brightness、Contrast、Blue Light Filter、ASCR、Color Temp.、Saturation、Power Saving.
HDR Setting	Cinema HDR		
HDR Setting	Console HDR		
HDR Setting	Brightness Adjustable	By default, brightness in HDR mode is automatic. Enabling this feature allows manual brightness adjustment.	
ASCR	On/Off	Dynamically adjusts contrast, ideal for videos or high-dynamic scenes, enhancing the depth and layering of the image.	When this feature is enabled, ELMB, ELMB SYNC, and ELMB settings cannot be used.

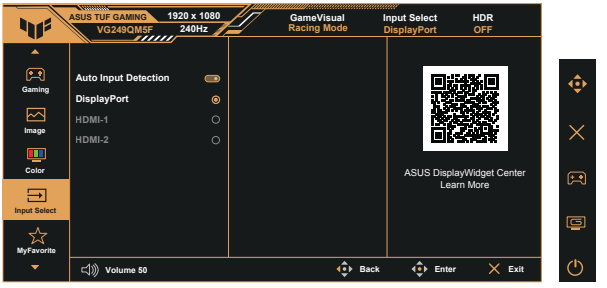
Menu Option		Description	Remark
Aspect Control	16:9 Full	Fills the screen by stretching the image without preserving the aspect ratio. The image becomes larger but may distort, affecting the viewing experience.	1. FPS game size; you can also select point-to-point scaling in Windows display settings. 2. When this feature is enabled, the following functions will be disabled: VRR, ELMB, ELMB SYNC.
Aspect Control	16:9 Pixel by Pixel	16:9 native mode maps pixels directly, keeping clarity and aspect ratio. Low resolution images may show black borders.	
Aspect Control	Square Full	Stretches the image to fill the entire screen without preserving the aspect ratio. The image becomes larger but may be distorted, affecting the viewing experience.	
Aspect Control	Square Equivalent	Scales the image up while maintaining the original aspect ratio to avoid distortion, but may result in black borders.	
Aspect Control	Square Pixel by Pixel	Displays the image at its original resolution without scaling or stretching.	
Blue Light Filter	Level4/ Level3/ Level2/ Level1/OFF	1. Levels 1 to 4: The higher the level, the stronger the blue light filtering effect, resulting in less blue light scattering. 2. Level and brightness adjustment: Users can adjust brightness between levels 1 and 3. 3. Level 4 is the default optimal setting, compliant with TÜV low blue light certification standards, but brightness cannot be adjusted.	1. When this feature is enabled, the following functions will be disabled: ELMB, ELMB SYNC. 2. When this feature is enabled, the system will automatically apply the default settings of Competition Mode.
Smart Pixel	Level3/ Level2/ Level1/OFF	Smart Pixel enhances overall image details in real time for clearer and more vivid visuals.	
VividPixel	Adjustable from 0~100	Enhances image edges and details to improve image clarity.	

3.1.2.3 Color



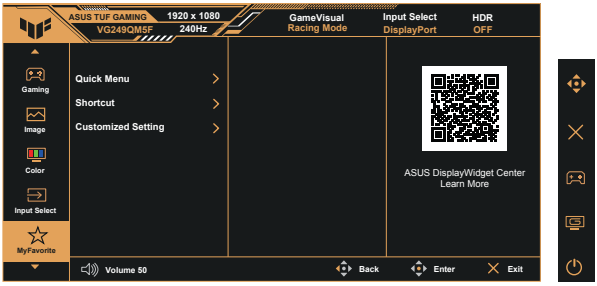
Menu Option			Description	Remark
Color Temp.	Warm	-	Contains 4 modes including Warm, Normal, Cool and User.	-
Color Temp.	Normal	-		-
Color Temp.	Cool	-		-
Color Temp.	User	R Adjustable from 0~100		Supports user-adjustable color temperature settings.
Color Temp.	User	G Adjustable from 0~100		
Color Temp.	User	B Adjustable from 0~100		
Saturation	Adjustable from 0~100	-	The adjusting range is from 0 to 100.	

3.1.2.4 Input Select



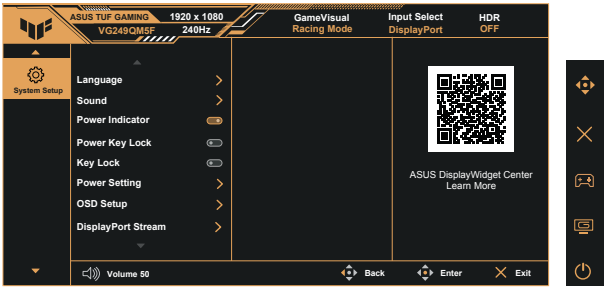
Menu Option		Description	Remark
Auto Input Detection	On / Off	Once turned on, it automatically detects the signal and switches the input source.	
DisplayPort	Choose the input source as needed.	Select DisplayPort as the video input source.	
HDMI-1		Select HDMI-1 as the video input source.	
HDMI-2		Select HDMI-2 as the video input source.	

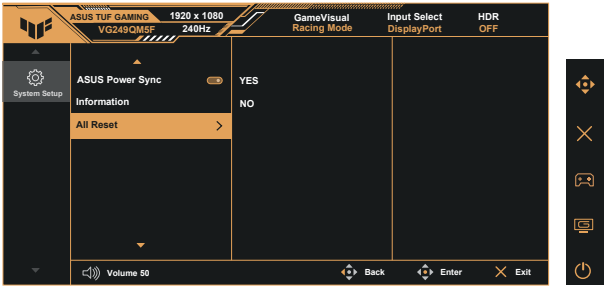
3.1.2.5 MyFavorite



Menu Option		Description	Remark
Quick Menu	Mode1 or Mode2 or Mode3 or Mode4	The Quick Menu lets you assign your favorite monitor settings to four modes (Mode 1–4) for faster access during use.	
Shortcut	Shortcut 1 or Shortcut 2	Configure the functions of the monitor's shortcut keys.	
Customized Setting	Setting 1 or Setting 2	Load or save all monitor settings to quickly switch between different usage scenarios.	

3.1.2.6 System Setup

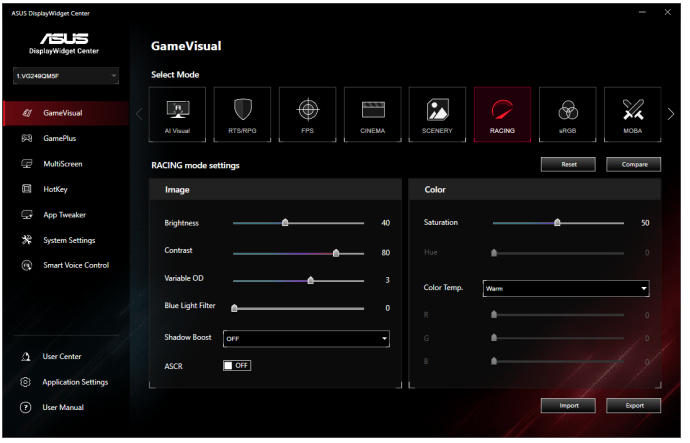




Menu Option		Description	Remark
Language	Language Selection	Supports 23 languages: English, French, German, Italian, Spanish, Dutch, Portuguese, Russian, Czech, Croatian, Polish, Romanian, Hungarian, Turkish, Simplified Chinese, Traditional Chinese, Japanese, Korean, Thai, Indonesian, Persian, Ukrainian, and Vietnamese.	
Sound	Volume	Adjustable from 0~100	
	Mute	Switch the monitor sound on or off.	
Power Indicator	On/Off	Switch the power LED indicator on or off.	
Power Key Lock	On/Off	Turn the power button on or off.	
Key Lock	On/Off	All function keys are disabled. To unlock, press and hold the down key on the five-way button for five seconds.	

Menu Option		Description	Remark
Power Setting	Performance Mode	Offers better performance but consumes more power.	
	Power Saving Mode	Limits brightness and features to save energy. HDR must be turned off before enabling this; a reminder will appear when adjusting brightness.	
OSD Setup	OSD Position	Adjust the horizontal and vertical position of the OSD menu.	
	OSD Timeout	Adjust the menu display duration between 10 and 120 seconds.	
	Transparency	Adjust the OSD background transparency.	
	DDC/CI	Turn on or off the communication between the monitor and computer (auto-enabled with variable refresh rate).	
DisplayPort Stream	DisplayPort 1.2 or DisplayPort 1.4	Select DisplayPort 1.2 or DisplayPort 1.4 based on the graphics card.	
ASUS Power Sync	On/Off	Automatically powers the monitor and connected devices on or off (compatible with Apple TV, PlayStation, Xbox, Switch, and more).	
Information	-	Displays the current resolution, refresh rate, and other information of the monitor.	
All Reset	Yes or No	Reset all settings to their factory default values.	

3.2 Display Widget Center



ASUS DisplayWidget Center is a Windows-based utility designed for ASUS monitors. It allows users to adjust monitor settings directly from their desktop using a mouse, eliminating the need for on-screen display (OSD) buttons. It streamlines configuration of color, brightness, contrast, and other advanced features.

System Requirements

*Operating System: Windows 10 (64-bit) or Windows 11 (64-bit)

*Supported Models: Please check the driver section on the ASUS Support Site(https://www.asus.com/support/) by entering your monitor model.

How to Download and Install

1. Go to the ASUS DisplayWidget Center download page.
2. Enter your monitor model in the search bar (e.g., VG249QM5F).
3. Select Driver & Utility → Choose your OS version.
4. Download and unzip the DisplayWidget Center installer.
5. Run the setup file and follow the installation steps.
6. Once installed, the shortcut icon will appear on your desktop.

Key Features

1. GameVisual Modes: Change between Scenery, Racing, Cinema, FPS, RPG, and other color presets.

2. GamePlus Tools: Activate crosshairs, FPS counter, sniper, timer, and display alignment tools.

3. Color Adjustment: Fine-tune brightness, contrast, saturation, and gamma directly from your PC.

4. Multi-Screen Tools: Organize and divide your desktop workspace with layout presets.

5. Hotkey Customization: Assign shortcuts for quick access to settings.

6. App Sync: Automatically switch monitor settings based on running applications.

7. Device & System Info: View real-time system and monitor information.

Tips for Users

1. Always check for the latest version through the official ASUS website.

2. If you change monitor models, reinstalling the tool may be necessary.

3. Some features may vary depending on your monitor model and panel type.

3.3 Specifications summary

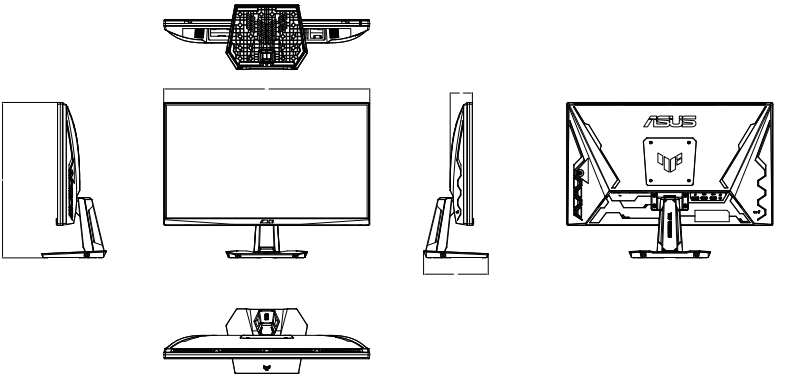
Model	VG249QM5F
Chassis Colors	Black
Panel Type	LCD
Backlight Type	ELED
Panel Size	23.8”W (60.5cm)
Recommend Resolution	1920 x 1080
Refresh Rate	260Hz
Aspect Ratio	16:9
Brightness (Typ.)	300nits (Typ.)
Color Space (sRGB)	sRGB 99%
Color Space (DCIP3)	DCI-P3 90%
Intrinsic Contrast Ratio (Typ.)	1000:1
Viewing Angle (CR>10)	178°(V) /178°(H)
Display Colors	16.7M colors (8bits)
Response Time	1ms (Gray to Gray), 0.3ms (MPRT)
WHQL	Windows 10/11
Digital signal Frequency	48~260Hz(DP) / 48~255Hz(HDMI)
Power Consumption	16W**
Power saving mode	< 0.5W
Power off mode	< 0.3W
Voltage	100~240V, 50/60Hz, 1.5A
Temperature (operating)	0 ~ 40°
Tilt	-5° ~ +20°
Swivel	NA
Pivot	NA
Height Adjustment	NA
I/O Port	HDMI v2.0 x 2, DisplayPort v1.4 (HBR2) x 1
Speaker	2W x 2 stereo
Phys. Dimension with stand (WxHxD)	541.0 x 408.3 x 169.8 mm
Phys. Dimension without stand (WxHxD)	541.0 x 323.3 x 58.3 mm
Box Dimension (WxHxD)	600 x 412 x 150 mm

Net Weight (Esti.)	3.31 kg
Net Weight without stand	2.85 kg
Gross Weight (Esti.)	4.84 kg

*** Specifications are subject to change without notice.**
**** Measuring a screen brightness of 200 nits without audio/USB/Card reader connection.**

3.4 Outline dimension

Unit: mm [inch]



3.5 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.

3.6 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	1600x1200-60Hz	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	1920x1080-24Hz	V	V
Video Timing	1920x1080-25Hz	V	V
Video Timing	1920x1080-30Hz	V	V
Video Timing	1920x1080-50Hz	V	V
Video Timing	1920x1080-60Hz	V	V
Video Timing	1920x1080-100Hz	V	V
Video Timing	1920x1080-120Hz	V	V
Video Timing	3840x2160-24Hz	V	
Video Timing	3840x2160-25Hz	V	
Video Timing	3840x2160-30Hz	V	
Video Timing	3840x2160-50Hz	V	
Video Timing	3840x2160-60Hz	V	

4:3 Square Timing

Timing	Resolution	HDMI	DP
Detail Timing	1280x960-240Hz	V	V
Detail Timing	1024x768-240Hz	V	V
Detail Timing	1728x1080-240Hz	V	V
Detail Timing	1440x1080-240Hz	V	V
Detail Timing	1152x864-240Hz	V	V
Detail Timing	1280x960-255Hz	V	
Detail Timing	1024x768-255Hz	V	
Detail Timing	1728x1080-255Hz	V	
Detail Timing	1440x1080-255Hz	V	
Detail Timing	1152x864-255Hz	V	
Detail Timing	1280x960-260Hz		V
Detail Timing	1024x768-260Hz		V
Detail Timing	1728x1080-260Hz		V
Detail Timing	1440x1080-260Hz		V
Detail Timing	1152x864-260Hz		V

16:9 Timing

Timing	Resolution	HDMI	DP
Detail Timing	1920x1080-120Hz	V	V
Detail Timing	1920x1080-144Hz	V	V
Detail Timing	1920x1080-240Hz	V	V
Detail Timing	1920x1080-255Hz	V	
Detail Timing	1920x1080-260Hz		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.**

3.7 Enabled & Unavailable OSD Feature Functions

Enabled Function	Unavailable Functions
Overclocking	Power Saving Mode
Variable Refresh Rate	ELMB
ELMB	VRR, ELMB Sync, Brightness, HDR Setting, Blue Light Filter
ELMB Sync	VRR, ELMB, Brightness, HDR Setting, Blue Light Filter
Clarity Level	VRR, ELMB Sync, Brightness, HDR Setting, Blue Light Filter
Clarity Position	Same as Clarity Level
HDR	ELMB, ELMB Sync, Sniper, GameVisual, Shadow Boost, Brightness, Contrast, ASCR
ASCR	ELMB, ELMB Sync
Aspect Control	ELMB, ELMB Sync
Blue Light Filter	ELMB, ELMB Sync