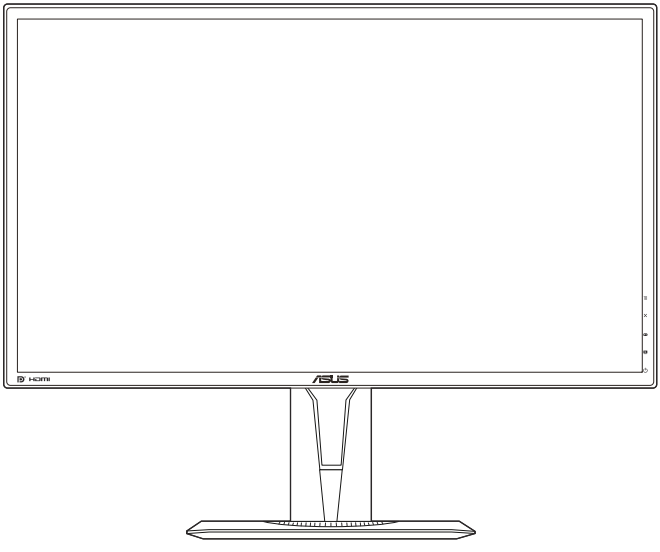
VG27A/VG27B series
LCD Monitor

User Guide



HIGH DEFINITION MULTIMEDIA INTERFACE

First Edition

June 2019

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Contents

Notices ..... **iv**
Safety information ..... **v**
Care & Cleaning ..... **vi**
Takeback Services ..... **vii**

Chapter 1: Product introduction

1.1 Welcome! **1-1**
1.2 Package contents **1-1**
1.3.1 Front view 1-2
1.3.2 Back view 1-3
1.3.3 GamePlus Function 1-3
1.3.4 GameVisual Function 1-5

Chapter 2: Setup

2.1 Assembling the monitor arm/base **2-1**
2.2 Adjusting the monitor **2-2**
2.3 Detaching the arm (for VESA wall mount) **2-3**
2.4 Connecting the cables **2-3**
2.5 Turning on the monitor **2-4**

Chapter 3: General instructions

3.1 OSD (On-Screen Display) menu **3-1**
3.1.1 How to reconfigure 3-1
3.1.2 OSD function introduction 3-1
3.2 Specifications summary **3-7**
3.3 Outline dimensions **3-9**
3.4 Troubleshooting (FAQ) **3-10**
3.5 Supported operating mode **3-11**

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.

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 Réglement sur le matériel brouiller 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 extention cords. Overloading can result in fire or electric shock.
- Avoid dust, humidity, and temperature extremes. Do not place the monitor in any area where it may become wet. Place the monitor on a stable surface.
- Unplug the unit during a lightning storm or if it will not be used for a long period of time. This will protect the monitor from damage due to power surges.
- Never push objects or spill liquid of any kind into the slots on the monitor cabinet.
- To ensure satisfactory operation, use the monitor only with UL listed computers which have appropriate configured receptacles marked between 100-240V AC.
- 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.
- The adapter is only used for this monitor, do not use it for other purpose. Your device uses one of the following power supplies:
  - Manufacturer: Delta Electronics Inc., Model: ADP-65GD B/ADP-65GD D.

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 yönetmeliğine 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.

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.

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

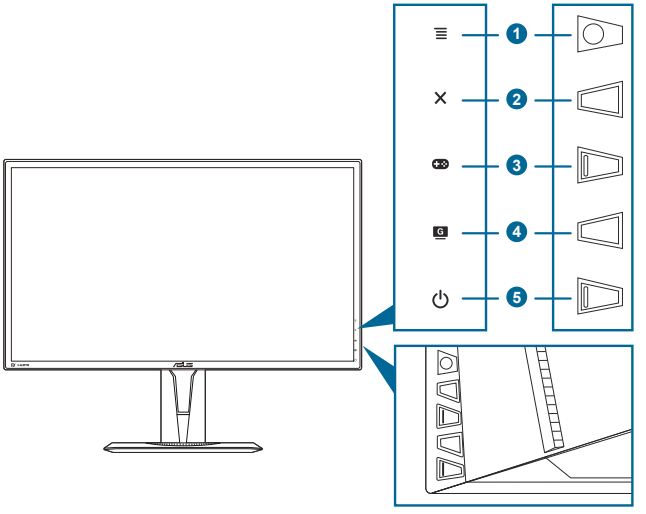
Check your package for the following items:

- ✓ LCD monitor
- ✓ Monitor base
- ✓ Quick start guide
- ✓ Warranty card
- ✓ Power adapter
- ✓ Power cord
- ✓ DisplayPort cable (optional)
- ✓ HDMI cable (optional)

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

1.3 Monitor introduction

1.3.1 Front view

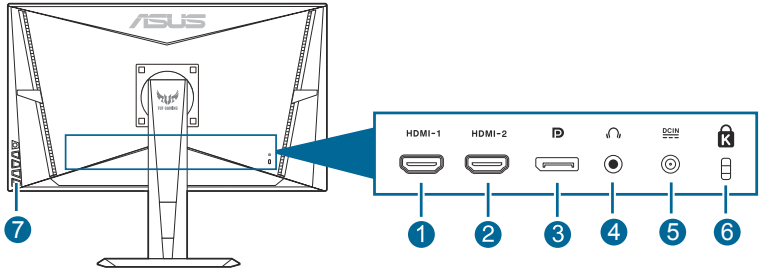


1. ☰ (◈ 5-way) button:
   - Turns on the OSD menu. Enacts the selected OSD menu item.
   - Increases/Decreases values or moves your selection up/down/left/right.
   - Displays the input selection bar when the monitor enters standby mode or displays the “NO SIGNAL“ message.
2. ✕ button
   - Exits the OSD menu item.
   - Displays the input selection bar when the monitor enters standby mode or displays the “NO SIGNAL“ message.
   - Toggles the Key Lock function between on and off with a long press for 5 seconds.
3. 🎮 button:
   - GamePlus hotkey. Move the ☰ (◈) button up/down to select and press ☰ (◈) to confirm the function needed.
   - Displays the input selection bar when the monitor enters standby mode or displays the “NO SIGNAL“ message.
4. G button
   - GameVisual hotkey. This function contains 7 sub-functions you can select for your preference.
   - 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. **HDMI port.** This port is for connection with an HDMI compatible device.
2. **HDMI port**. This port is for connection with an HDMI compatible device.
3. **DisplayPort in**. This port is for connection with a DisplayPort compatible device.
4. **Earphone jack.** This port is only available when an HDMI/DisplayPort cable is connected.
5. **DC-IN port.** This port connects the power cord.
6. **Kensington lock slot**.
7. **Control buttons.**

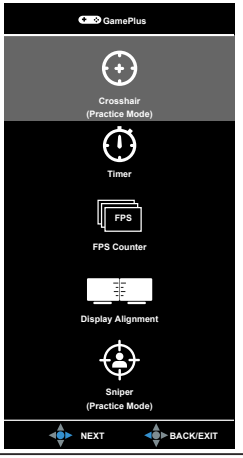
1.3.3 GamePlus Function

The GamePlus function provides a toolkit and creates a better gaming environment for users when playing different types of games. The crosshair overlay with 6 different crosshair options lets you choose the one that best suits the game you're playing. There's also an onscreen timer you can position on the left of the display so you can keep track of the elapsed gaming time; while the FPS (frames per second) counter lets you know how smooth the game is running. 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. Sniper function (only available when HDR is disabled on your device) is customized for first-person shooters. You can select the magnification ratio and the type of alignment in sequence.

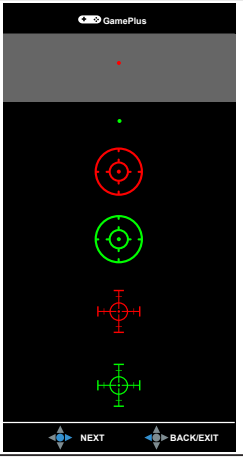
To active GamePlus:

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

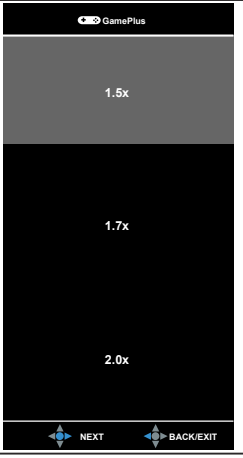


GamePlus — Crosshair



GamePlus — Timer

GamePlus — Sniper



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.

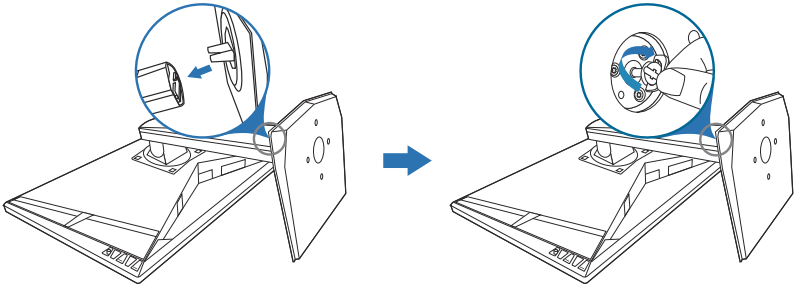
- In the Racing mode, the following function(s) are not user-configurable: Saturation, Skin Tone, Sharpness, ASCR.
- In the sRGB mode, the following function(s) are not user-configurable: Brightness, Contrast, Saturation, Color Temp., Skin Tone, Sharpness, ASCR.
- In the MOBA mode, the following function(s) are not user-configurable: Saturation, Skin Tone, Sharpness, ASCR.

2.1 Assembling the monitor arm/base

To assemble the monitor base:

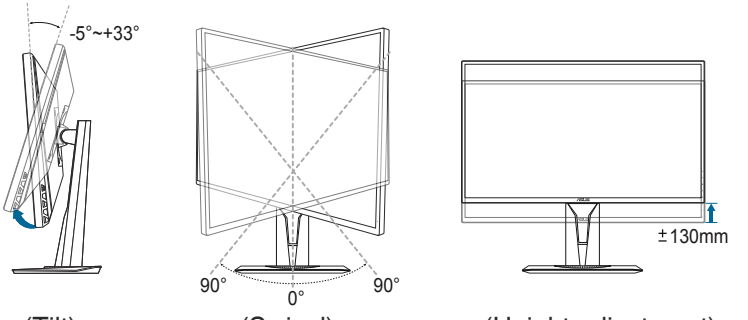
1. Have the front of the monitor face down on a table.
2. Attach the base into the arm, making sure the tab on the arm fits into the groove on the base.
3. Fix the base to the arm by fastening the bundled screw.

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



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 +33˚ to -5˚ (for tilt)/+90˚ to -90˚ (for swiveling/ ±130 mm (for height adjustment)/90˚ (for portrait view).

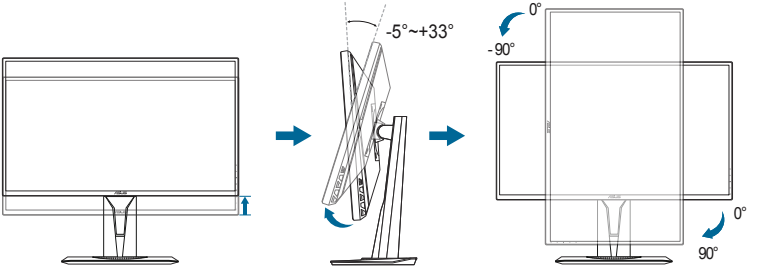


(Tilt) (Swivel) (Height adjustment)

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

Pivoting the monitor

1. Lift the monitor to the highest position.
2. Tilt the monitor to its maximum angle.
3. Pivot the monitor to the angle you need.



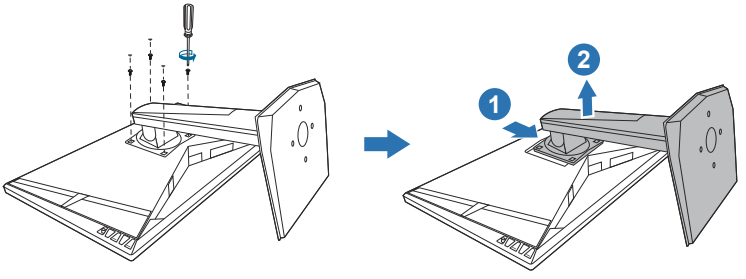
It is normal that the monitor slightly shakes while you adjust the viewing angle.

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:

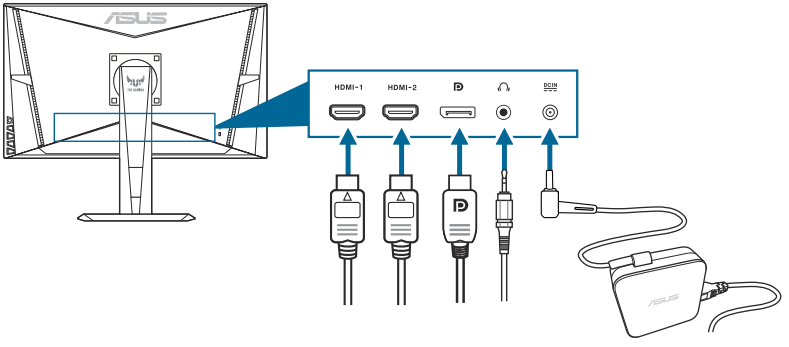
1. Have the front of the monitor face down on a table.
2. Loosen the four screws on the back of the monitor and remove the arm/base.



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

2.4 Connecting the cables

Connect the cables as the following instructions:



- **To connect the power cord**:
  a. Connect the power adapter securely to the monitor's DC input.
  b. Connect one end of the power cord to the power adapter and the other end to a power outlet.

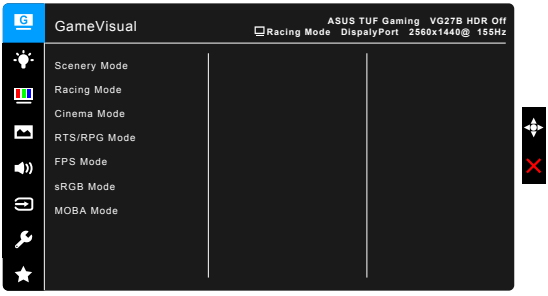
- **To connect the DisplayPort/HDMI cable**:
  a. Plug one end of the DisplayPort/HDMI cable to the monitor's DisplayPort/HDMI port.
  b. Connect the other end of the DisplayPort/HDMI cable to your computer's DisplayPort/HDMI port.
- **To use the earphone:** connect the end with plug type to the monitor's earphone jack when an HDMI or DisplayPort signal is fed.

2.5 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

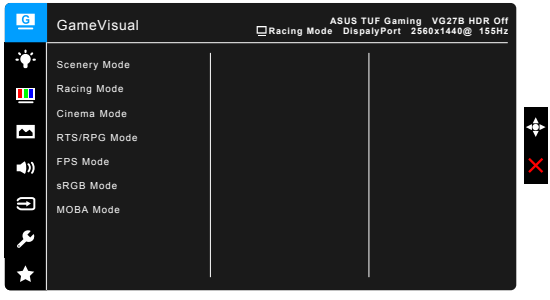
3.1.1 How to reconfigure



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 sub-menu 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 ☰ (◎) left repeatedly until the OSD menu disappears. To adjust other functions, repeat steps 1-3.

3.1.2 OSD function introduction

1. GameVisual



Please refer to “1.3.4 GameVisual Function”.

2. Blue Light Filter

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

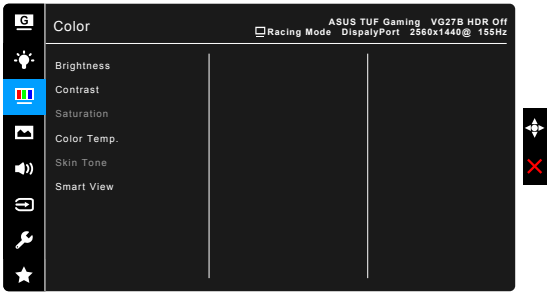
- **Level 0:** No change.
- **Level 1~4:** The higher the level, the less blue light is scattered. When Blue Light Filter is activated,the default settings of Racing Mode will be automatically imported. Between Level 1 to Level 3, the Brightness function is user-configurable. Level 4 is optimized setting. It is compliance with TUV Low Blue Light 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

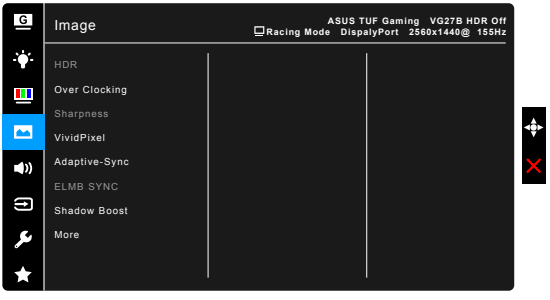
Set a desired color setting from this menu.



- **Brightness**: The adjusting range is from 0 to 100.
- **Contrast**: The adjusting range is from 0 to 100.
- **Saturation**: the adjusting range is from 0 to 100.
- **Color Temp.**: Contains 4 modes including Cool, Normal, Warm, and User Mode.
- **Skin Tone**: Contains three color modes including Reddish, Natural, and Yellowish.
- **Smart View (only for VG27B series)**: Provides better display quality under big viewing angle.

4. Image

Set the image related setting from this menu.



- **HDR**: Contains two HDR modes.
  - * **ASUS Gaming HDR**: Is the HDR mode that ASUS has specially adjusted for HDR performance.
  - * **ASUS Cinema HDR**: Complies with VESA Display HDR.
- **Over Clocking (DisplayPort only):** Allows you to adjust the refresh rate. Select “ON“ if you want to enable this function.

Over Clocking may cause screen flickering. To reduce such effects, disconnect the DisplayPort cable and use the monitor OSD menu to try again with a safer Max. Refresh rate.

- **Sharpness**: The adjusting range is from 0 to 100.
- **Trace Free**: Adjusts the response time of the monitor.
- **Aspect Control**: Adjusts the aspect ratio to full or 4:3.

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

- **VividPixel:** Enhances the outline of the displayed picture and generates high-quality images on screen.
- **ASCR**: Turns on/off the ASCR (ASUS Smart Contrast Ratio) function.
- **Adaptive-Sync** (DisplayPort/HDMI only): 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.

* Adaptive-Sync can only be activated within 48Hz ~ 155Hz (DisplayPort only) and 48Hz ~ 144Hz (HDMI only).
* For supported GPUs, minimum PC system and driver requirements, please contact the GPU manufactures.

- **ELMB SYNC**: Allows you to turn on the function when Adaptive-Sync is On. This function eliminates screen tearing, reduces ghosting and motion blur when playing games.

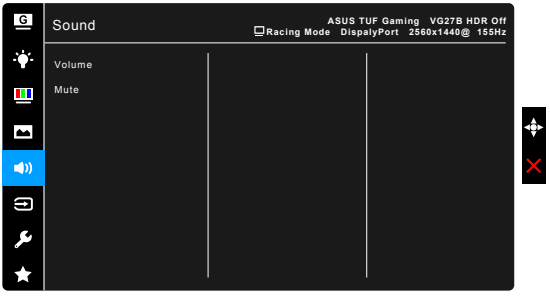
When Adaptive-Sync is Off, this function can only be activated when the refresh rate is 100Hz, 120Hz, 144Hz or 155Hz.

- **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.

5. Sound

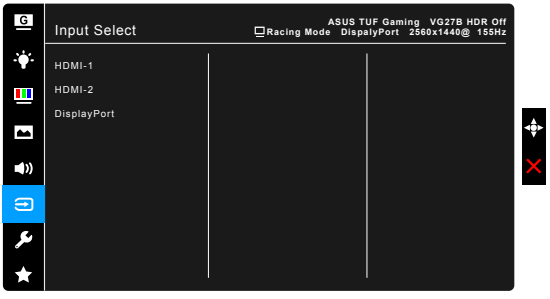
Set the sound related setting from this menu.



- **Volume**: The adjusting range is from 0 to 100.
- **Mute**: Toggles the monitor sound between on and off.

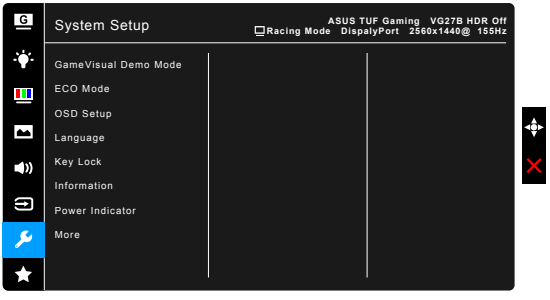
6. Input Select

In this function, you can select your desired input source.



7. System Setup

Allows you to adjust the system.

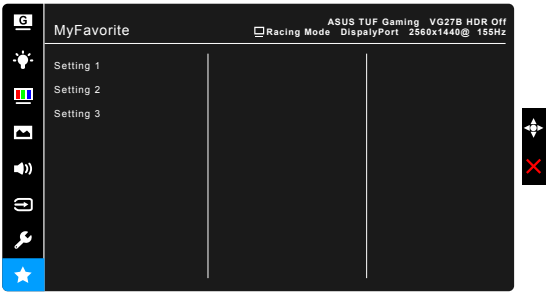


- **GameVisual Demo Mode**: Activate the demo mode for the GameVisual function.
- **ECO Mode**: reduces power consumption.

- **OSD Setup**:
  - * Adjusts the OSD timeout from 10 to 120 seconds.
  - * Enables or disables the DDC/CI function.
  - * Adjusts the OSD background from opaque to transparent.
- **Language**: There are 21 languages for your selection, including English, French, German, Italian, Spanish, Dutch, Portuguese, Russian, Czech, Croatian, Polish, Romanian, Hungarian, Turkish, Simplified Chinese, Traditional Chinese, Japanese, Korean, Thai, Indonesian, Persian.
- **Key Lock**: To disable all function keys. Press ✕ over 5 seconds to cancel the key lock function.
- **Information**: Shows the monitor information.
- **Power Indicator**: Turn the power LED indicator on/off.
- **Power Key Lock**: Enables or disables the power key.
- **All Reset**: "Yes" allows you to restore the default settings.

8. MyFavorite

Loads/Saves all settings on the monitor.



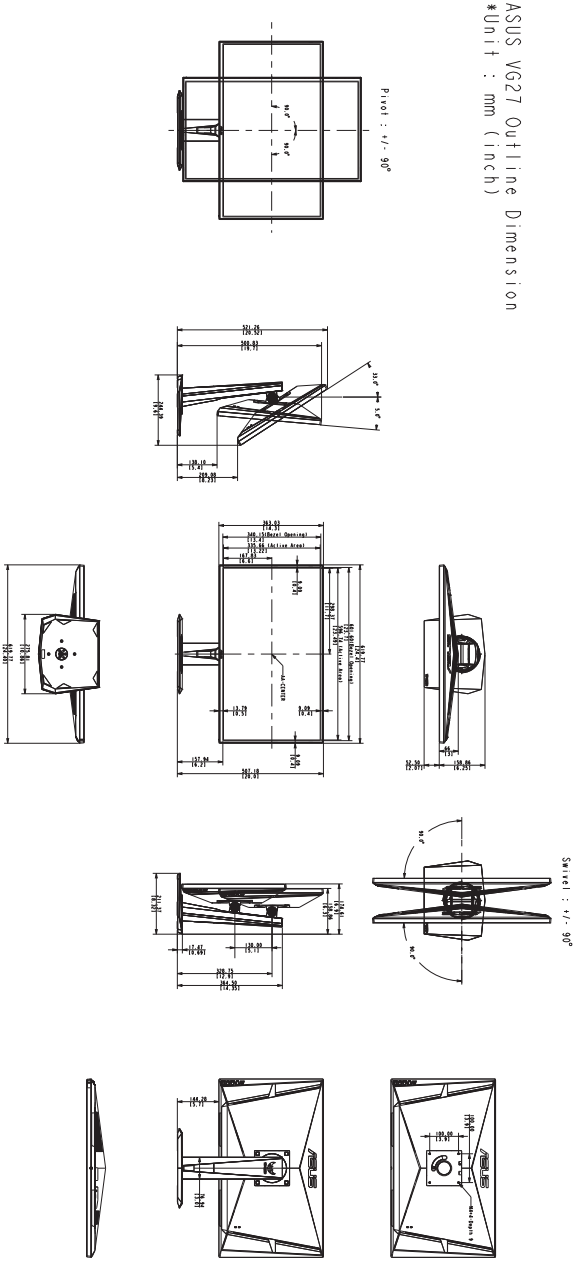
3.2 Specifications summary

Panel Type	TFT LCD
Panel size	27"W (16:9, 68.5 cm) wide screen
Max. Resolution	2560 x 1440
Pixel pitch	0.233 mm
Brightness (Typ.)	350 cd/m^2
Contrast Ratio (Typ.)	1000:1
Viewing angle(H/V) CR>10	VG27AQ: 178˚/178˚ VG27BQ: 170˚/160˚
Display colors	16.7 M
Response time	VG27AQ: 1ms MPRT VG27BQ: 1 ms (Gray to gray), 0.4 ms (Gray to gray, minimum)
Color temperature selection	4 color temperatures
Analog input	No
Digital input	HDMI x 2, DisplayPort v1.2 x 1
Earphone jack	Yes
Audio input	No
Speaker (Built-in)	2 W x 2 Stereo, RMS
USB 3.0 port	No
Colors	Black
Power LED	White (On)/Amber (Standby)
Tilt	+33˚~ -5˚
Swivel	+90˚~ -90˚
Height adjustment	130 mm
VESA wall mount	100 x 100 mm
Kensington lock	Yes
Voltage rating	AC: 100~240V DC: 19 V, 3.42 A (AC adapter)
Power consumption	Power On: < 65 W, Standby: < 0.5 W, Power Off: < 0.5 W
Temperature (Operating)	0˚C~40˚C
Temperature (Non-operating)	-20˚C~+60˚C
Dimensions (W x H x D) without stand	619 mm x 363 mm x 50 mm
Dimensions (W x H x D) with stand	620 mm x 507 mm x 211 mm (highest) 620 mm x 378 mm x 211 mm (lowest) 704 mm x 464 mm x 210 mm (package)
Weight (Esti.)	5.8 kg (Net); 3.5 kg (without stand); 8.0 kg (Gross)

Multi-languages	21 languages (English, French, German, Italian, Spanish, Dutch, Portuguese, Russian, Czech, Croatian, Polish, Romanian, Hungarian, Turkish, Simplified Chinese, Traditional Chinese, Japanese, Korean, Thai, Indonesian, Persian)
Accessories	DisplayPort cable (optional), HDMI cable (optional), power adapter, power cord, Quick start guide, warranty card
Compliance and Standards	UL/cUL, CB, CE, ErP, FCC, CCC, CU, RCM, BSMI, VCCI, RoHS, J-MOSS, WEEE, Windows 7 & 8.1 & 10 WHQL, CEL, MEPS, PSE, UkrSEPRO, KCC, E-Standby, TUV-Flicker Free, TUV-Low Blue Light, ICES-3, PC Recycle

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

3.3 Outline dimensions



3.4 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.
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 All Reset via OSD. • Adjust the R/G/B color settings or select the Color Temperature via OSD.

3.5 Supported operating mode

Timing List	HDMI 2.0	DisplayPort 1.2
640x480@60	V	V
640x480@67	V	V
640x480@72	V	V
640x480@75	V	V
720x400@70	V	V
800x600@56	V	V
800x600@60	V	V
800x600@72	V	V
800x600@75	V	V
832x624@75	V	V
1024x768@60	V	V
1024x768@70	V	V
1024x768@75	V	V
1152x864@75	V	V
1280x1024@60	V	V
1280x1024@75	V	V
1440x900@60	V	V
1920x1080@60	V	V
1920x1080@100	V	X
1920x1080@120	V	X
2560x1440@60	V	V
2560x1440@100	V	V
2560x1440@120	V	V
2560x1440@144	V	V
2560x1440@155	X	V

Video Timing		
Timing List	HDMI 2.0	DisplayPort 1.2
720x480P@59.94	V	X
720x480P@60	V	X
720x576P@50	V	V
1280x720P@50	V	V
1280x720P@59.94	V	V
1280x720P@60	V	V
1440x480P@59.94	V	V

Video Timing		
Timing List	HDMI 2.0	DisplayPort 1.2
1440x480P@60	V	V
1440x576P@50	V	V
1920x1080P@23.97	V	X
1920x1080P@29.97	V	X
1920x1080P@30	V	X
1920x1080P@50	V	V
1920x1080P@59.94	V	V
1920x1080P@60	V	V
1920x1080P@120	X	V

Note: Do not support interlace.