ASUS

VZ27AQ Series
LCD Monitor

User Guide
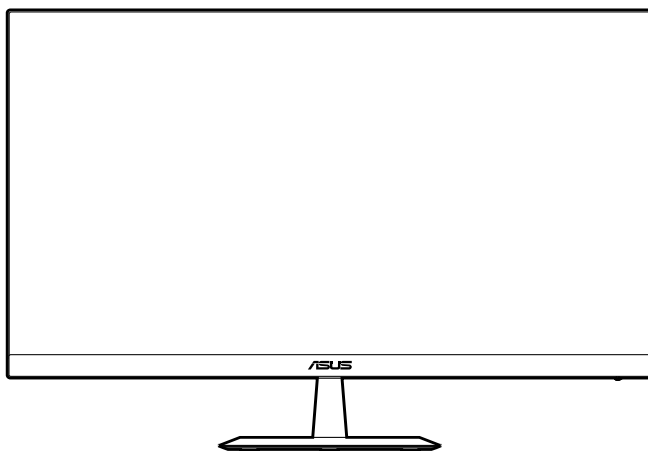
HDMI
HIGH DEFINITION MULTIMEDIA INTERFACE

First Edition

January 2017

Contents

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.

> 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.

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

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.

TCO DEVELOPMENT

Congratulations!

This product is TCO Certified – for Sustainable IT

TCO Certified is an international third party sustainability certification for IT products. TCO Certified ensures that the manufacture, use and recycling of IT products reflect environmental, social and economic responsibility. Every TCO Certified product model is verified by an accredited independent test laboratory.

This product has been verified to meet all the criteria in TCO Certified, including:

Corporate Social Responsibility
Socially responsible production - working conditions and labor law in manufacturing country
Energy Efficiency
Energy efficiency of product and power supply. Energy Star compliant, where applicable
Environmental Management System
Manufacturer must be certified according to either ISO 14001 or EMAS
Minimization of Hazardous Substances
Limits on cadmium, mercury, lead & hexavalent chromium including requirements for mercury-free products, halogenated substances and hazardous flame retardants
Design for Recycling
Coding of plastics for easy recycling. Limit on the number of different plastics used.
Product Lifetime, Product Take Back
Minimum one-year product warranty. Minimum three-year availability of spare parts. Product takeback
Packaging
Limits on hazardous substances in product packaging. Packaging prepared for recycling
Ergonomic, User-centered design
Visual ergonomics in products with a display. Adjustability for user comfort (displays, headsets)
Acoustic performance – protection against sound spikes (headsets) and fan noise (projectors, computers)
Ergonomically designed keyboard (notebooks)
Electrical Safety, minimal electro-magnetic Emissions
Third Party Testing
All certified product models have been tested in an independent, accredited laboratory.

A detailed criteria set is available for download at www.tcodevelopment.com, where you can also find a searchable database of all TCO Certified IT products.

TCO Development, the organization behind TCO Certified, has been an international driver in the field of Sustainable IT for 20 years. Criteria in TCO Certified are developed in collaboration with scientists, experts, users and manufacturers. Organizations around the world rely on TCO Certified as a tool to help them reach their sustainable IT goals. We are owned by TCO, a non-profit organization representing office workers. TCO Development is headquartered in Stockholm, Sweden, with regional presence in North America and Asia.

For more information, please visit
www.tcodevelopment.com

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-40KD BB

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:

- 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:

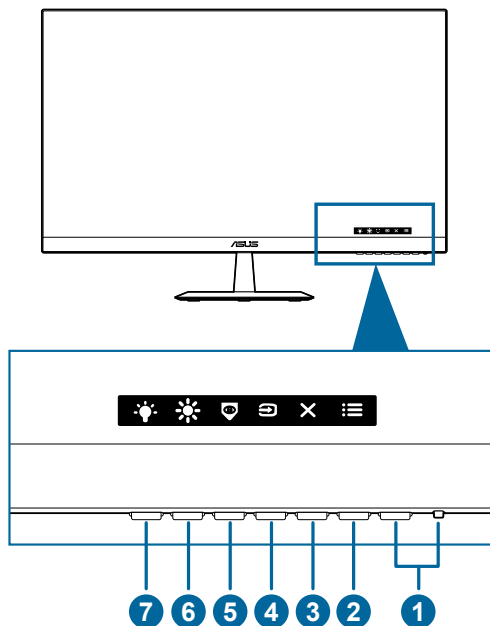✓ LCD monitor

✓ Monitor base

✓ Quick start guide

✓ Warranty card

✓ Power adapter

✓ Power cord

✓ HDMI cable (optional)

✓ VGA cable

✓ Audio 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. ⏻ 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
Off	Off

2. ☰ Menu button:
    • Press this button to display the OSD menu when the OSD is off.
    • Enters the OSD menu.
3. ✕ Close button:
    • Press this button to display the OSD menu when the OSD is off.
    • Exits the OSD menu.
    • Toggles the Key Lock function between on and off with a long press for 5 seconds.
4. ⮌ Input select button:

- Press this button to display the OSD menu when the OSD is off.
- Selects an available input source.

5. ⊙ EyeCheck button:
   - Press this button to display the OSD menu when the OSD is off.
   - Use this hotkey to activate EyeCheck function as a vision test.

6. ☼ Shortcut **1**
   - Press this button to display the OSD menu when the OSD is off.
   - Default: Brightness hotkey
   - To change the hotkey function, go to the Shortcut > Shortcut 1 menu.

7. ☀ Shortcut **2**
   - Press this button to display the OSD menu when the OSD is off.
   - Default: Blue light filter hotkey
   - To change the hotkey function, go to the Shortcut > Shortcut 2 menu.

1.3.2   Back view
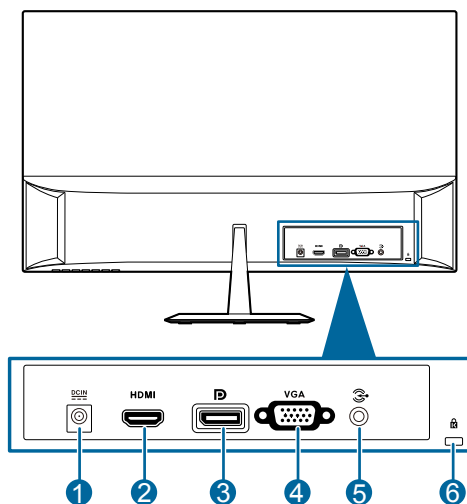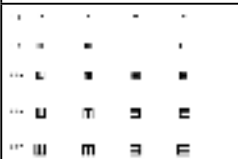
1. **DC-IN port**. This port connects the power cord.
2. **HDMI port.** This port is for connection with an HDMI compatible device.
3. **DisplayPort**. This port is for connection for a DisplayPort compatible device.
4. **VGA port**. This 15-pin port is for PC VGA connection.
5. **Audio-in port**. This port connects PC audio source by the bundled audio cable.
6. **Kensington lock slot**.

1.3.3   EyeCheck function

The EyeCheck function contains three patterns: (1) Snellen Chart (2) Amsler Grid (3) Astigmatism.

1.   Snellen Chart

2.   Amsler Grid

While focusing at the center point, check that all the lines are straight.
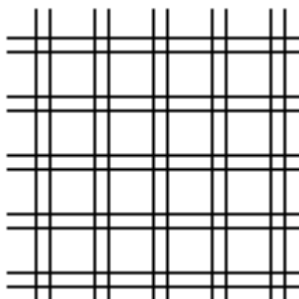
3.   Astigmatism

Check that each line is of the same width.
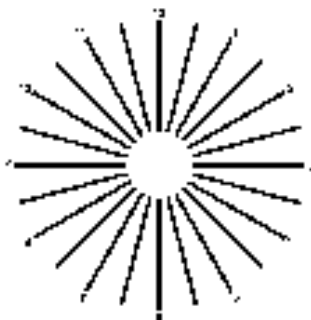
2.1 Assembling the monitor arm/base

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.
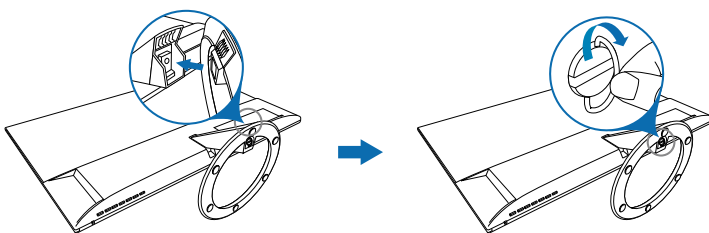
2.2 Adjusting the monitor

• 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 +20 to -5˚.

-5° ~ +20°
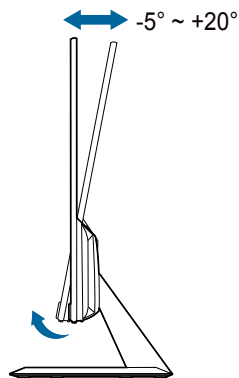
2.3　Connecting the cables

Connect the cables as the following instructions:
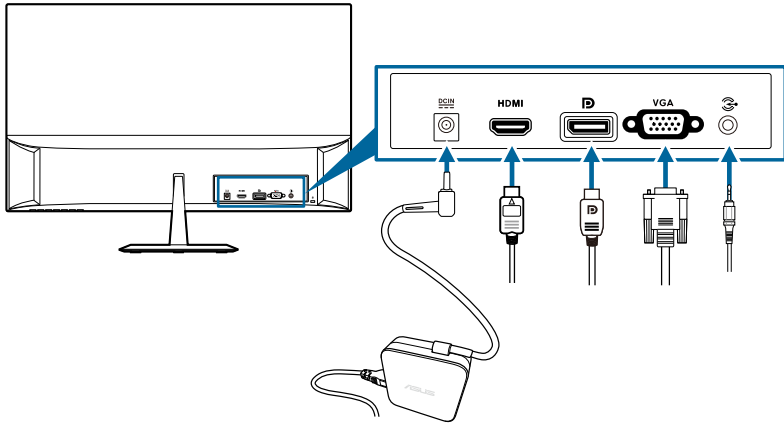
- **To connect the power cord**:
    - a.　Connect the power adapter securely to the monitor's DC input.
    - b.　Connect one end of the power cord to the power adapter and the other end to a power outlet.
- **To connect the VGA/DisplayPort/HDMI cable**:
    - a.　Plug one end of the VGA/DisplayPort/HDMI cable to the monitor's VGA/DisplayPort/HDMI jack.
    - b.　Connect the other end of the VGA/DisplayPort/HDMI cable to your computer's VGA/DisplayPort/HDMI jack.
    - c.　Tighten the two screws to secure the VGA connector.
- **To connect the audio cable:** connect one end of the audio cable to the monitor's Audio-in port, the other end to the computer's audio-out port.

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

2.4　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
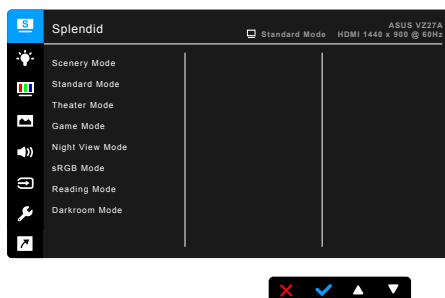
1. Press any button (except the Power button) to display the OSD menu.
2. Press the ☰ Menu button to activate the OSD menu.
3. Press the buttons as indicated on the screen to navigate through the functions. Highlight the desired function and press ✔ to activate it. If the function selected has a sub-menu, press ▼ and ▲ again to navigate through the sub-menu functions. Highlight the desired sub-menu function and press ✔ to activate it.
4. Press ▼ and ▲ to change the settings of the selected function.
5. To exit and save the OSD menu, press ↰ or ✗ repeatedly until the OSD menu disappears. To adjust other functions, repeat steps 1-4.

3.1.2 OSD function introduction

1. Splendid

This function contains 8 sub-functions you can select for your preference. Each mode has the Reset selection, allowing you to maintain your setting or return to the preset mode.
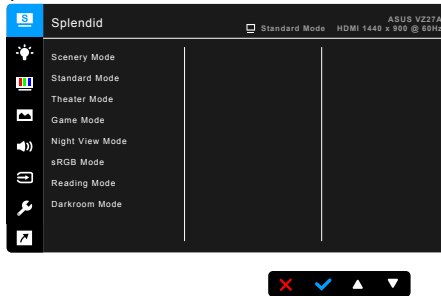
- **Scenery Mode:** Best choice for scenery photo display with SplendidPlus Video Enhancement.

- **Standard Mode**: Best choice for document editing with SplendidPlus Video Enhancement.

- **Theater Mode:** Best choice for movies with SplendidPlus Video Enhancement.

- **Game Mode:** Best choice for game playing with SplendidPlus Video Enhancement.

- **Night View Mode:** Best choice for dark-scene games or movies with SplendidPlus Video Enhancement.

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

- **Reading Mode**: This is the best choice for book reading.

- **Darkroom Mode**: This is the best choice for a weak ambient light environment.

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

2. Blue Light Filter

In this function, you can adjust the blue light filter level.
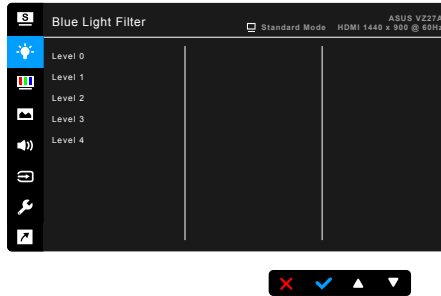
- **Level 0:** No change.
- **Level 1~4:** The higher the level, the less blue light is scattered.
  When Blue Light Filter is activated,the default settings of Standard Mode will be automatically imported. Between Level 1 to Level 3, the Brightness function is user-configurable. Level 4 is optimized 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).

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3. Color

Set a desired color setting from this menu.
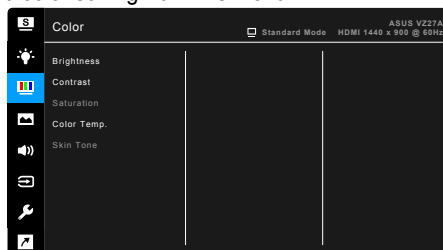
- **Brightness**: The adjusting range is from 0 to 100.
- **Contrast**: The adjusting range is from 0 to 100.
- **Saturation**: The adjusting range is from 0 to 100.
- **Color Temp.**: Contains 4 modes including Cool, Normal, Warm and User Mode.
- **Skin Tone**: contains three color modes including Reddish, Natural, and Yellowish.

4. Image

Set the image related setting from this menu.
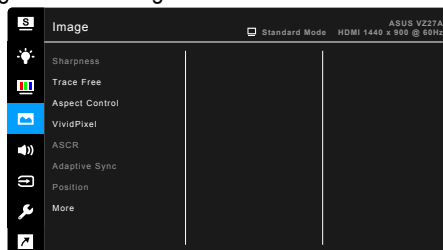
- **Sharpness**: The adjusting range is from 0 to 100.
- **Trace Free**: Adjusts the response time of the monitor.
- **Aspect Control**: Adjusts the aspect ratio to full, 4:3, 1:1 or OverScan.

> 4:3 is only available when input source is in 4:3 format. OverScan is only available for the HDMI input source.

- **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 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 49Hz ~ 76Hz.
> * For supported GPUs, minimum PC system and driver requirements, please contact the GPU manufactures.

- **Position (Only available for VGA input)**: adjusts the horizontal position (H-Position) and the vertical position (V-Position) of the image. The adjusting range is from 0 to 100.
- **Focus (Only available for VGA input)**: reduces Horizonal-line noise and Vertical-line noise of the image by adjusting (Phase) and (Clock) separately. The adjusting range is from 0 to 100.

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

- **Auto Adjust.**: Automatically adjusts the image to its optimized position, clock, and phase (for VGA mode only).

5. **Sound**
   Set the sound related setting from this menu.
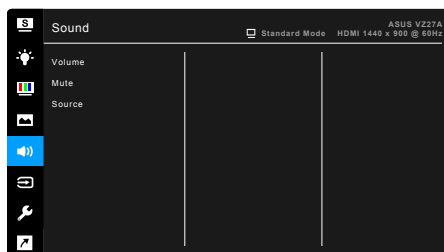
- **Volume**: the adjusting range is from 0 to 100.
- **Mute**: toggles the monitor sound between on and off.
- **Source**: decides the monitor sound comes from which source.

6. **Input Select**

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

Input Select			**ASUS VZ27A**	
			Standard Mode	HDMI 1440 x 900 @ 60Hz

    VGA
    HDMI ✔
    DisplayPort
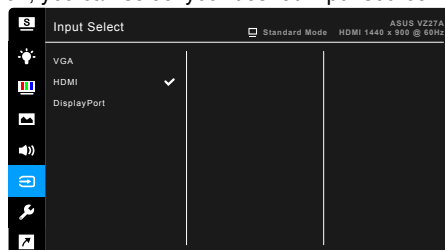
7. **System Setup**

    Allows you to adjust the system.

System Setup		**ASUS VZ27A**
	Standard Mode	HDMI 1440 x 900 @ 60Hz

    Splendid Demo Mode
    GamePlus
    EyeCheck
    ECO Mode
    OSD Setup
    Language
    Key Lock
    More
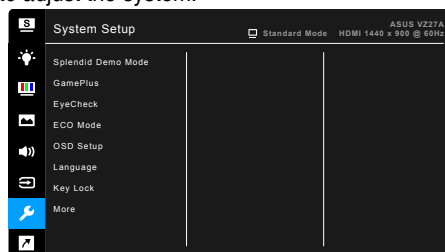
*   **Splendid Demo Mode**: Splits the screen into two for Splendid modes comparison. (Scenery mode only)

*   **GamePlus**: The GamePlus function provides a toolkit and creates a better gaming environment for users when playing different types of games. The crosshair overlay with four 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. 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.

GamePlus — Crosshair	GamePlus — Timer
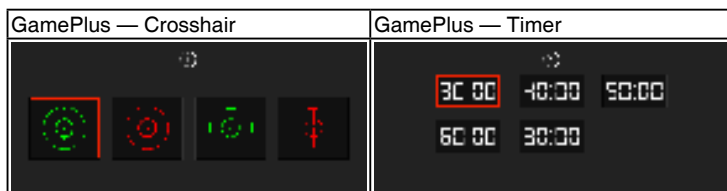
- **EyeCheck**: displays patterns for eyesight test.
- **ECO Mode**: reduces power consumption.
- **OSD Setup**:
  - * Adjusts the OSD timeout from 10 to 120 seconds.
  - * Enables or disables the DDC/CI function.
  - * Adjusts the OSD background from opaque to transparent.
- **Language**: There are 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, Indonesia, Persian.
- **Keylock**: To disable all function keys. Press the second button from the right over five seconds to cancel the key lock function.
- **Information**: Shows the monitor information.
- **Power Indicator**: Turns 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.

7. **Shortcut**

   Defines the functions for Shortcut 1 and 2 buttons.
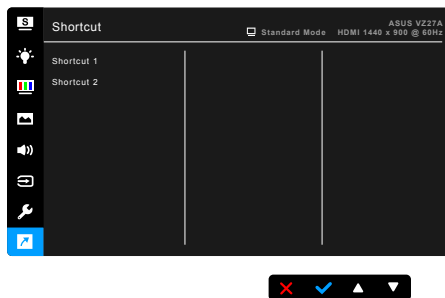
- **Shortcut 1/Shortcut 2**: selects a function for Shortcut 1 and 2 buttons.

> When a certain function is selected or activated, your shortcut key may not support. Available function choices for shortcut: Blue Light Filter, Splendid, Brightness, Auto Adjust, Contrast, Color Temp., Volume, GamePlus.

ASUS VZ27AQ Series LCD Monitor

3.2 Specifications summary

Panel Type	TFT LCD
Panel size	27" (16:9, 68.48 cm) wide screen
Max. Resolution	2560 x 1440
Pixel pitch	0.2331 mm x 0.2331 mm
Brightness (Typ.)	250 cd/m^2
Contrast Ratio (Typ.)	1000:1
Contrast Ratio (Max.)	100,000,000:1 (with ASCR on)
Viewing angle (H/V) CR>10	178˚/178˚
Display colors	1.07 B
Response time	5 ms (Gray to Gray)
SplendidPlus Video Enhancement	Yes
SplendidPlus selection	8 video preset modes
Auto adjustment	Yes
Color temperature selection	4 color temperatures
Analog input	D-sub
Digital input	DisplayPort v1.2, HDMI v1.4
Earphone jack	No
Audio input	Yes
Speaker (Built-in)	2 W x 2 Stereo, RMS
USB 2.0 port	No
Colors	Black
Power LED	White (On)/Amber (Standby)
Tilt	+20˚~ -5˚
Pivot	No
Swivel	No
Height Adjustment	No
Kensington lock	Yes
AC input voltage	AC: 100~240V DC: 19V, 2.1A (AC adapter)
Power consumption	Power On: < 40 W** (Typ.), Standby: < 0.5 W (Typ.), Power Off: 0.5 W
Temperature (Operating)	0˚C~40˚C
Temperature (Non-operating)	-20˚C~+60˚C
Dimension (W x H x D) with stand	612.7 x 440.8 x 210 mm (machine), 689 x 117 x 544 mm (package)
Weight (Esti.)	4.3 kg (Net); 5.3 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, Indonesia, Persian)
Accessories	Power cord, Power adapter, HDMI cable (optional), VGA cable, Audio cable (optional), Quick start guide, Warranty card

Compliance and Standards	Energy Star, TCO, EAC, CB, CE, CU, CCC, UL/cUL, FCC, RCM, BSMI, VCCI, RoHS, WEEE, J-MOSS, ErP, PSE, CEL, Windows 7 WHQL, Windows 8.1 WHQL, Windows 10 WHQL, KCC, E-Standby, TUVFlicker Free, TUV-Low Blue Light, UkrSEPRO, MEPS

*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 if the power switch is ON.
The power LED lights amber and there is no screen image	• Check if the monitor and the computer are in the ON mode. • Make sure the signal cable is properly connected the monitor and the computer. • Inspect the signal cable and make sure none of the pins are bent. • Connect the computer with another available monitor to check if the computer is properly working.
Screen image is too light or dark	• Adjust the Contrast and Brightness settings via OSD.
Screen image is not centered or sized properly	• Adjust the H-Position or V-Position settings via OSD.
Screen image bounces or a wave pattern is present in the image	• Make sure the signal cable is properly connected to the monitor and the computer. • Move electrical devices that may cause electrical interference.
Screen image has color defects (white does not look white)	• Inspect the signal cable and make sure that none of the pins are bent. • Perform All Reset via OSD. • Adjust the R/G/B color settings or select the Color Temperature via OSD.
Screen image is blurry or fuzzy	• Adjust the Phase and Clock settings via OSD.
No sound or sound is low	• Ensure that the HDMI/DisplayPort cable is properly connected to the monitor and the computer. • Adjust the volume settings of both your monitor and HDMI/DisplayPort device. • Ensure that the computer sound card driver is properly installed and activated.

3.4   Supported operating modes

Resolution Frequency	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Pixel (MHz)
640x480	31.47(N)	59.94(N)	25.18
640x480	35.00(N)	66.66(N)	30.24
640x480	37.87(N)	72.82(N)	31.5
640x480	37.5(N)	75.00(N)	31.5
720x400	31.47(N)	70.08(P)	28.32
800x600	35.16(P)	56.25(P)	36.00
800x600	37.88(P)	60.32(P)	40.00
800x600	48.08(P)	72.12(P)	50.00
800x600	46.86(P)	75.00(P)	49.50
832X624	49.72(P/N)	74.55(P/N)	57.28
1024x768	48.36(N)	60.00(N)	65.00
1024x768	56.476(N)	70.069(N)	75.00
1024x768	60.02(N)	75.00(N)	78.75
1152x864	67.5(P/N)	75.00(P/N)	108.00
1280x960	60.00(P)	60.00(N)	108.00
1280x1024	63.98(P)	60.02(P)	108.00
1280x1024	79.98(P)	75.02(P)	135.00
1366x768	47.712(P)	59.79(P)	85.50
1440x900	55.94(N)	59.89(P)	106.50
1600x1200	75.00(P)	60.00(P)	162.00
1680x1050	65.29(N)	60.00(P)	146.25
1920x1080	67.5(P)	60.00(P)	148.5
1920x1200 (Reduced Blanking)	74.038(P)	59.95(N)	154
1920x1200	74.556(N)	59.885(P)	193.25
2560x1080	66.636(P)	59.978(N)	181.25
2560x1440	88.787(P)	59.951(N)	241.50
2560x1440*	111.857(P)	74.971(N)	304.25

*Supported for the following graphic cards when the input source is DisplayPort: AMD R9 295X2, AMD R9 290, AMD R9 285, AMD R9 270X, AMD R7 260X, AMD R7 250, AMD HD 7990 , AMD HD 7970, AMD HD 7850, AMD HD 7790, AMD HD 7770, AMD HD 6990, NVIDIA GTX 980, NVIDIA GTX 960, NVIDIA GTX TITAN Z, NVIDIA GTX 780, NVIDIA GTX 770, NVIDIA GTX 750 Ti, NVIDIA GTX 750, NVIDIA GTX 690, NVIDIA GTX 680, NVIDIA GTX 770, Intel HD Graphics 4400, Intel HD Graphics 4600.

Timing Name	Pixel Format	Horizational Frequency (kHz)	Vertical Frequency (Hz)	Pixel Rate (MHz)
480p	720 x 480	31.469	60	27
720p60	1280 x 720	45	60	74.25
576p	720 x 576	31.25	50	27
720p50	1280 x 720	37.5	50	74.25
1080p60	1920 x 1080	67.5	60	148.5
1080p50	1920 x 1080	56.25	50	148.5