

VZ24E Series LCD Monitor

User Guide





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 Base
- ✓ Quick Start Guide
- ✓ Warranty Card
- ✓ 1x Power Cord
- ✓ 1x VGA Cable (option)
- ✓ 1x HDMI Cable (option)
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- If any of the above items is damaged or missing, contact your retailer immediately.
- * Also the Replaceable parts required by the TCO Certified.

1.3 Assembling the monitor

To assemble the monitor:

- 1. Place the display flat on a cloth on the table, Then attach the base to the arm and fix with the screw to join them tightly. You can easily tighten the screw by fingers.
- 2. Adjust the monitor to the angle that is most comfortable for you.



1.4 Connect cables

1.4.1 Rear of the LCD monitor



- 1. HDMI Port
- 2. VGA Port
- 3. Earphone out Port
- 4. DC-IN Port
- 5. Kensington Lock

1.4.1 Six sides figure

UNIT:mm(inch)



1.5 Monitor introduction

1.5.1 Using the Controls button

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



- 1. Menu Button:
 - Press this button to turn the monitor on when monitor is power off.
 - Press this button enter the OSD menu when monitor is power on.
 - Enter/select the icon (function) highlighted while the OSD is activated.
- 2. Input Select Item / Increase value:
 - Add or Increase value
 - Input source select hot key
- 3. Brightness Item / Decrease value:
 - Next Item or Decrease value
 - Brightness hot key
- 4. Close / Return Button:
 - Return to previous menu.
 - Exit the OSD menu.
- 5. Power Button:
 - To activate "Power Off" OSD when monitor is power on.

2.1 Adjusting the monitor

- For optimal viewing, we recommend that you look at the full face of the monitor, then adjust the monitor to the angle that is most comfortable for you.
- Hold the stand to prevent the monitor from falling when you change its angle.
- You can adjust the monitor's angle from +23° to -5°





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

3.1 OSD (On-Screen Display) menu

3.1.1 How to reconfigure

	Splendid	ASUS VZ24E
	opionala	Standard Mode VGA 1920x1080@60Hz
۲	Standard Mode	
	sRGB Mode	
	Scenery Mode	
	Theater Mode	
Ð	Game Mode	
	Night View Mode	
للر	Reading Mode	
7	Darkroom Mode	

- 1. Press the MENU button to activate the OSD menu.
- Press the ▼ and ▲ buttons to toggle between options in the Menu. As you move from one icon to another, the option name is highlighted.
- 3. To select the highlighted item on the menu press the Center key.
- 4. Press the $\mathbf{\nabla}$ and $\mathbf{\Delta}$ buttons to select the desired parameter.
- Press the Center key to enter the slide bar and then use the ▼ or ▲ buttons, according to the indicators on the menu, to make your changes.
- 6. Press the \triangleleft b to move left / right menu.

3.1.2 OSD Function Introduction

1. Splendid

This function contains eight sub-functions that you can select for your preference. Each mode has the Reset selection, allowing you to maintain your setting or return to the preset mode.

S	Splendid	Standard Mode	VGA	ASUS VZ24E 1920x1080@60Hz
۲	Standard Mode			
	sRGB Mode			
	Scenery Mode			
	Theater Mode			
Ð	Game Mode			
	Night View Mode			
للر	Reading Mode			
~	Darkroom Mode			

- Standard Mode: This is the best choice for document editing with SPLENDID[™] Video Intelligence Technology.
- **sRGB Mode**: This is the best choice for viewing photos and graphics from PCs.
- Scenery Mode: This is the best choice for scenery photo displaying with SPLENDID[™] Video Intelligence Technology.
- **Theater Mode**: This is the best choice for movie watching with SPLENDID[™] Video Intelligence Technology.
- Game Mode: This is the best choice for game playing with SPLENDID[™] Video Intelligence Technology.
- Night View Mode: This is the best choice for playing dark-scene game or watching dark-scene movie with SPLENDID[™] Video Intelligence Technology.
- Reading Mode : This is the best choice for book reading.
- Darkroom Mode : This is the best choice for a weak ambient light environmen.
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- In the Standard Mode, the Saturation, SkinTone, Sharpness, and ASCR functions are not user-configurable.
- In the sRGB, the Saturation, Color Temp., SkinTone, Sharpness, Brightness, Contrast and ASCR functions are not user-configurable.
- In the Reading Mode, the Saturation, SkinTone, Sharpness, ASCR, contrast, and Color Temp functions are not user-configurable.

2. Eye Care

In this function, you can adjust settings to better protect your eyes.



- Blue Light Filter: In this function, you can adjust the blue light filter from 0 to Max.
- * 0: No change.
- * Max: 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. Besides maximum level, the brightness is user-configurable. Maximum is the optimized setting. It is compliance with TUV low blue light certification*. The brightness function is not user configurable.



When color augmentation is in default value (50).

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.) hrmful blue light to avoiding CVS (Computer Vision Syndrome) when the user adjusts blue light filter bar to maximum level.

• **Rest Reminder:** This function provides you a rest reminder according to how long you set for your working time. For example, if you set a 30-minute working time and there will be a pop up reminder appeared on the upper left corner of the monitor for 5 seconds when time is up. Press any key to make this reminder OSD disappear.



When this function is enabled, the following functions are not available: Splendid Demo Mode, GamePlus, QuickFit.

• **Color Augmentation:** The adjusting range of color enhancement is from 0 to 100.



- This function is not available when sRGB Mode is selected in the Splendid menu.
- This function is not available when Reddish or Yellowish is selected in the Skin Tone menu.
- **EyeCheck:** The EyeCheck function contains three patters: (1) Snellen Chart (2) Amslter Grid (3) Astigmastism.



3. Color

Select the image color you like from this function.



- 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 three preset color modes (Cool, Normal, Warm) and User Mode.
- Skin Tone: Contains three color modes including Reddish, Natural, and Yellowish.



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

4. Image

You can adjust the image Sharpness, Trace Free, Aspect Control, VividPixel, ASCR, Position (VGA only), Focus (VGA only), and Auto Adjust (VGA only), from this main function.



- **Sharpness**: Adjusts the picture sharpness. The adjusting range is from 0 to 100.
- **Trace Free:** Speeds up the response time by Over Drive technology. The adjusting range is from lower 0 to faster 100.
- Aspect Control: Adjusts the aspect ratio to "Full", "4:3", "Overscan(Only For HDMI)".
- **VividPixeI**: ASUS Exclusive Technology that brings lifelike visuals for crystal-clear and detail-oriented enjoyment. The adjusting range is from 0 to 100.
- ASCR: Select ON or OFF to enable or disable dynamic contrast ratio function.
- Motion Sync: Check to decrease motion blur and minimize ghosting part when on-screen objects are fast moving. It can only be turned on at 75Hz or above.
- FreeSync: It can allow a FreeSync 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.
- Position: Adjusts the horizontal position (H-Position) and the vertical position (V-Position) of the image. The adjusting range is from 0 to 100 (Only available for VGA input).
- Focus: 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 (Only available for VGA input).
- Auto Adjust.: Automatically adjust the image to its optimized position, clock, and phase. (Only available for VGA input.)



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

5. Input Select

Select the input source from VGA, HDMI nput signal.



6. System Setup

Adjusts the system configuration.



- Splendid Demo Mode: Activate the demo mode for the Splendid function.
- Volume: Adjusts the output volume level.
- GamePlus: The GamePlus Function provides a toolkit and creates a better gaming environment for users when playing different types of games. Particularly, Aimpoint function is specially designed for new gamers or beginners interested in First Person Shooter (FPS) games.

To active GamePlus:

- Select **ON** to enter the GamePlus main menu.
- Press ▲ and ▼ to select between Crosshair, Timer, FPS Counter, and Display Alignment function.
- Press Center key to confirm the function you choose. Press ▲ to go back. Press ▲ to go off, and exit.

GamePlus main menu	GamePlus-Crosshair
GamePlus	● GamePlus
Crosshair	1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 -
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Timer	
FPS Counter	
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Display Alignment	r-⊉-1
GamePlus main-Timer	GamePlus -FPS counter
	GamePlus -FPS counter
GamePlus main-Timer GamePlus 30:00	GamePlus -FPS counter
GamePlus main-Timer GamePlus 30:00 40:00	GamePlus -FPS counter
GamePlus main-Timer GamePlus G	GamePlus -FPS counter
GamePlus main-Timer GamePlus G	GamePlus -FPS counter

- QuickFit: contains three patterns: (1) Grid (2) Paper size (3) Photo size.
 - 1. Grid pattern: Facilitates designers and users to organize content and layout on one page and achieve a consistent look and feel.



2. Paper size: Provides users to view their documents in real size on the screen.



 Photo size: Provides photographers and other users to accurately view and edit their photos in real size on the screen.



- ECO Mode: Activate the ecology mode for power saving.
- OSD Setup: Adjusts the OSD Timeout, DDC/CI, and Transparency of the OSD screen.
- Language: Select OSD language. The selections are: English, French, German, Spanish, Italian, Dutch, , Russian, Poland, Czech, Croacia, Hungary, Romania, Portugal, Turkey, Simplified Chinese, Traditional Chinese, Japanese, Korean, Persian, Thai, Indonesian.
- More: Return the next page of System Setting.
- Back: Return the previous page of System Setting.
- **Key Lock**: Disable all key functions. Pressing the second button on the right for more than five seconds to disable key lock function.
- Information: Displays the monitor information.
- Power Indicator: Turn the power LED indicator on/off.
- Power Key Lock: To disable / enable power key
- All Reset: Selects "Yes" to revert all settings to the factory default mode.

7. Shortcut

Selecting this option allows you to set two shortcut keys.



- **Shortcut 1**: User can select from "Blue Light Filter" "Splendid", "Brightness", "Auto Adjust", "Contrast", "Input Select", "Color Temp.", "Volume", "QuickFit", "GamePlus", and set as shortcut key. The default setting is Brightness.
- **Shortcut 2**: User can select from "Blue Light Filter" "Splendid", "Brightness", "Auto Adjust", "Contrast", "Input Select", "Color Temp.", "Volume", "QuickFit", "GamePlus", and set as shortcut key. The default setting is Blue Light Filter.

3.2 Specifications

Model	VZ24EHE	
Panel Size	23.8"W	
Max. Resolution	1920x1080	
Brightness (Typ.)	250cd/m ²	
Intrinsic Contrast Ratio (Typ.)	1000:1	
Viewing Angle (CR>10)	178°(V) /178°(H)	
Display Colors	16.7 M(6bit+FRC)	
Response Time	5ms (G To G)	
Sound from HDMI	Yes	
HDMI input	Yes	
D-Sub input	Yes	
Audio Line-out	Yes	
Power ON Consumption	< 14W	
Note	Energy star 8.0 standard	
Chassis Colors	Black	
Power saving mode	< 0.5W	
Power off mode	< 0.5W	
Tilt	-5° ~ +23°	
VESA Wall Mounting	Yes (100mm x 100mm)	
Phys. Dimension with stand (WxHxD)	540 mmx 392 mmx 210 mm	
Phys. Dimension without stand (WxHxD) (For VESA Wall Mount)	540 mmx 317 mmx 39 mm	
Box Dimension (WxHxD)	596 mmx488 mmx117 mm	
Net Weight (Esti.)	2.9 kg	
Gross Weight (Esti.)	4.2 Kg	
Voltage Rating	DC 19V(Built-in)	
Temperature	0°C ~ +35°C	
Humidity	10% ~ 80%	
Altitude	12,000 feet (3,658 m)	

3.3 Troubleshooting (FAQ)

Problem	Possible Solution
Power LED is not ON	 Press the O 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	 Make sure the audio cable is properly connected to the monitor. Adjust the volume settings of both your monitor and computer. Make sure the computer sound card driver is properly installed and activated. Make sure the audio source is correct on the OSD.

3.4 Supported Timing List

PC Supported Primary Timing

Resolution	Refresh Rate	Horizontal Frequency
640x480	60Hz	31.469kHz
640x480	72Hz	37.861kHz
640x480	75Hz	37.5kHz
800x600	56Hz	35.156kHz
800x600	60Hz	37.879kHz
800x600	72Hz	48.077kHz
800x600	75Hz	46.875kHz
1024x768	60Hz	48.363kHz
1024x768	70Hz	56.476kHz
1024x768	75Hz	60.023kHz
1152x864	75Hz	67.5kHz
1280x960	60Hz	60kHz
1280x1024	60Hz	63.981kHz
1280x1024	75Hz	79.976kHz
1440x900	60Hz	55.935kHz
1680x1050	60Hz	65.29kHz
1920x1080	60Hz	67.5kHz
1920x1080	75Hz	83.894kHz

IBM Modes, Factory Preset Timing

Resolution	Refresh Rate	Horizontal Frequency
640x350	70Hz	31.469kHz
720x400	70Hz	31.469kHz

MAC Modes, Factory Preset Timing

Resolution	Refresh Rate	Horizontal Frequency
640x480	67Hz	35kHz
832x624	75Hz	49.725kHz

VESA Modes, User Available Timing

Resolution	Refresh Rate	Horizontal Frequency
848x480	60Hz	31.02kHz
1280x720(RB)	60Hz	44.444kHz
1280x720	60Hz	44.772kHz
1280x800(RB)	60Hz	49.306kHz
1280x800	60Hz	49.702kHz
1366x768	60Hz	47.712kHz
1440x900(RB)	60Hz	55.469kHz
1680x1050(RB)	60Hz	64.674kHz
1920x1080	60Hz	66.587kHz

SD/HD Timings (HDMI input only)

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Resolution	Refresh Rate	Horizontal Frequency
640x480P	59.94 / 60Hz	31.469 / 31.5kHz
720x480P	59.94 / 60Hz	31.469 / 31.5kHz
720x576P	50Hz	31.25kHz
1280x720P	50Hz	37.5kHz
1280x720P	59.94 / 60Hz	44.955 /45kHz
1920x1080i	50Hz	28.125kHz
1920x1080i	59.94 / 60Hz	33.716 / 33.75kHz

HDMI 1.3,CEA-861B Formats, SD/HD Supported Primary Timings of (HDMI input only)

HDMI 1.3,CEA-861B Formats, SD/HD Supported Optional Timings of (HDMI input only)

Resolution	Refresh Rate	Horizontal Frequency
1440x480P	59.94 / 60Hz	31.469 / 31.5kHz
1440x576P	50Hz	31.25kHz
1920x1080P	50Hz	56.25kHz
1920x1080P	59.94 / 60Hz	67.433 / 67.5kHz

* 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.