

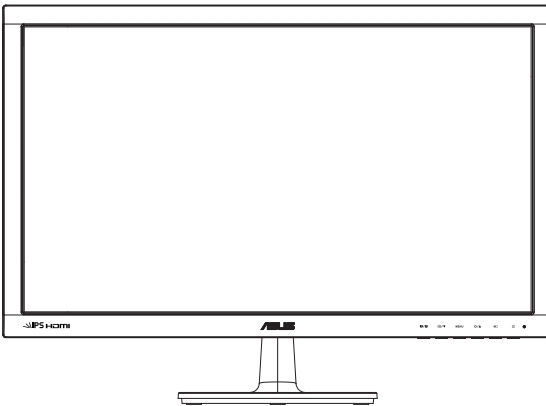
**ASUS<sup>®</sup>**

**VS229D/N/NR/H/  
HR/H-P**

**VS239N/NR/H/HR/H-P**

**LCD Monitor**

**User Guide**



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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.



As an Energy Star<sup>®</sup> Partner, our company has determined that this product meets the Energy Star<sup>®</sup> 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.

## 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, in case use at a PC then it should use the monitor only with 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.
- The wall socket shall be installed near the equipment and shall be easily accessible.
- For displays with glossy bezels the user should consider the placement of the display as the bezel may cause disturbing reflections from surrounding light and bright surfaces.

## Care & Cleaning

- Before you lift or reposition your monitor, it is better to disconnect the cables and power cord. Follow the correct lifting techniques when positioning the monitor. When lifting or carrying the monitor, grasp the edges of the monitor. Do not lift the display by the stand or the cord.
- Cleaning. Turn your monitor off and unplug the power cord. Clean the monitor surface with a lint-free, non-abrasive cloth. Stubborn stains may be removed with a cloth dampened with mild cleaner.
- Avoid using a cleaner containing alcohol or acetone. Use a cleaner intended for use with the LCD. Never spray cleaner directly on the screen, as it may drip inside the monitor and cause an electric shock.

### The following symptoms are normal with the monitor:

- The screen may flicker during the initial use due to the nature of the fluorescent light. Turn off the Power Switch and turn it on again to make sure that the flicker disappears.
- You may find slightly uneven brightness on the screen depending on the desktop pattern you use.
- When the same image is displayed for hours, an afterimage of the previous screen may remain after switching the image. The screen will recover slowly or you can turn off the Power Switch for hours.
- When the screen becomes black or flashes, or cannot work anymore, contact your dealer or service center to fix it. Do not repair the screen by yourself!

### Conventions used in this guide



**WARNING:** Information to prevent injury to yourself when trying to complete a task.



**CAUTION:** Information to prevent damage to the components when trying to complete a task.



**IMPORTANT:** Information that you **MUST** follow to complete a task.



**NOTE:** Tips and additional information to aid in completing a task.

## **Where to find more information**

Refer to the following sources for additional information and for product and software updates.

### **1. ASUS websites**

The ASUS websites worldwide provide updated information on ASUS hardware and software products. Refer to **<http://www.asus.com>**

### **2. Optional documentation**

Your product package may include optional documentation that may have been added by your dealer. These documents are not part of the standard package.

## 1.1 Welcome!

Thank you for purchasing the ASUS® VS229/VS239 Series 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 VS229/VS239 Series brings you!

## 1.2 Package contents

Check your VS229/VS239 Series LCD monitor package for the following items:

- ✓ LCD monitor
- ✓ Monitor base
- ✓ Quick start guide
- ✓ 1 x Power cord
- ✓ 1 x VGA cable
- ✓ 1 x DVI cable (Only for some models)
- ✓ 1 x Warranty card



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

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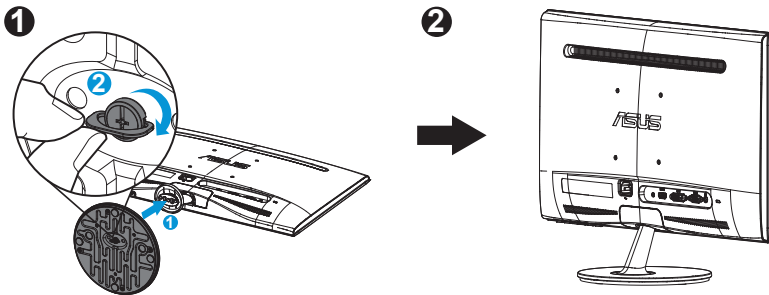
## 1.3 Assembling the monitor base

To assemble the monitor base:

1. 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.



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

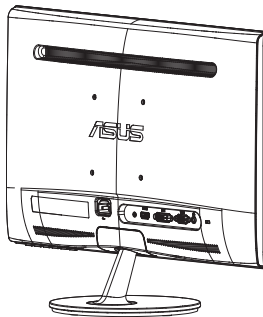


Make sure to screw the base to the arm tightly.

## 1.4 Connecting cables

To connect cables:

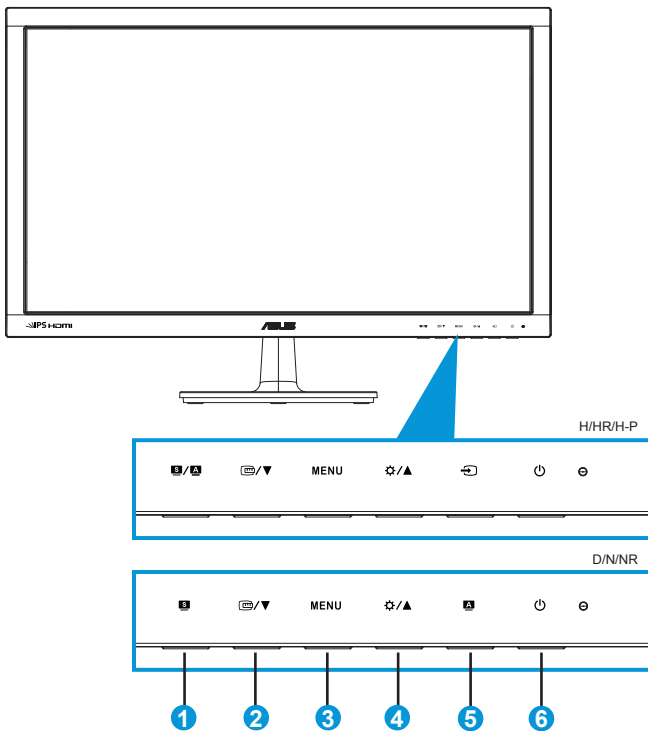
Connect the cables you need based on chapter 1.5.2, page1-5.





# 1.5 Monitor introduction

## 1.5.1 Front of the LCD monitor







### 1. **S / A** Button:

- Automatically adjust the image to its optimized position, clock, and phase by long pressing this button for 2-4 seconds (for VGA mode only).
- Use this hotkey to switch among six video preset modes (Scenery, Standard, Theater, Game, Night View, and sRGB Mode) with SPLENDID™ Video Enhancement Technology.
- Exit the OSD menu or go back to the previous menu as the OSD menu is active.

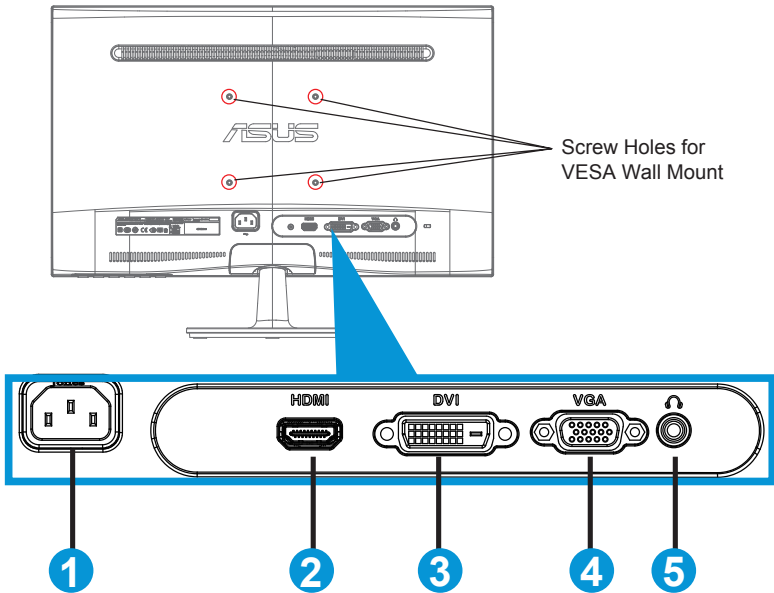
### 2. **□ / ▼** Button:

- Press this button to decrease the value of the function selected or move to the next function.
- This is a hotkey to activate the QuickFit function designed for alignment.

- The QuickFit function contains 7 pages of common grid patterns, paper sizes, and photo sizes. (Please refer to 1.5.3 QuickFit Function)
3. MENU Button:
    - Press this button to enter the OSD menu.
    - Press this button to enter/select the icon (function) highlighted while the OSD is activated.
  4.  /  Button:
    - Press this button to increase the value of the function selected or move right/up to the next function.
    - This is also a hotkey for brightness adjustment.
  5.  Input Select Button:
    - This button is available for model VS229H/HR/H-P, VS239H/HR/H-P only.
    - Use this hotkey to switch among VGA, DVI, or HDMI inputs.
  6.  Power Button/Power Indicator:
    - Press this button to turn the monitor on/off.
    - The color definition of the power indicator is as the table below.

Status	Description
Blue	ON
Amber	Standby mode
OFF	OFF

## 1.5.2 Rear of the LCD monitor



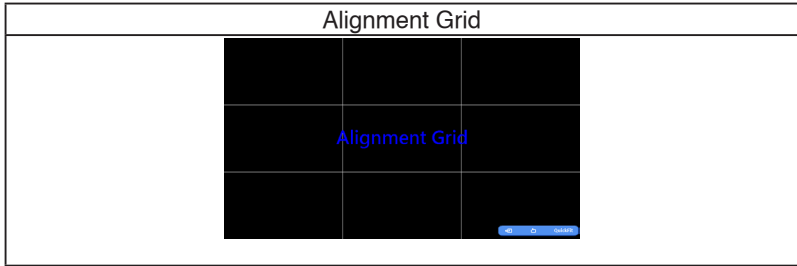
1. AC-In
2. HDMI-In  
(Available for model VS229H/HR/H-P, VS239H/HR/H-P only)
3. DVI-In  
(Available for model VS229N/NR/H/HR/H-P, VS239N/NR/H/HR/H-P only)
4. VGA-In
5. Earphone-Out  
(Available for model VS229H/HR/H-P, VS239H/HR/H-P only)

### 1.5.3 QuickFit Function

The QuickFit function contains three patterns: (1) Grid (2) Paper size (3) Photo size.

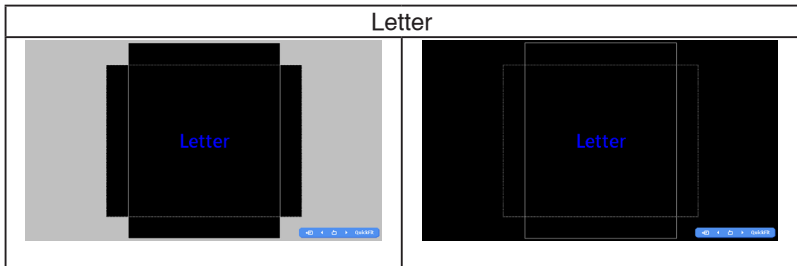
#### 1. Grid patterns

The grid patterns facilitate designers and users to organize content and layout on a page and achieve a consistent look and feel.



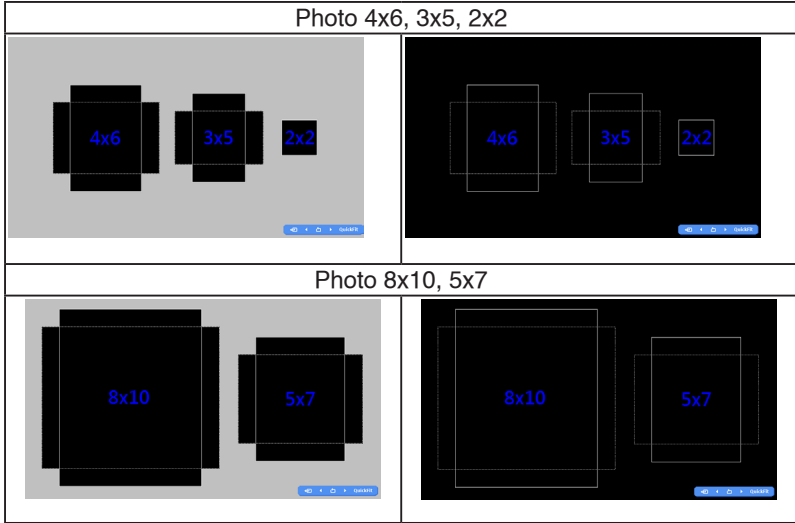
#### 2. Paper size(Available for model VS239 only)

QuickFit provides numerous commonly used standard paper sizes for users to view their documents in real size on the screen.



### 3. Photo size

The various real photo sizes displayed in the QuickFit function provides photographers and other users to accurately view and edit their photos in real size on the screen.



## 2.1 Detaching the arm/stand (for VESA wall mount)

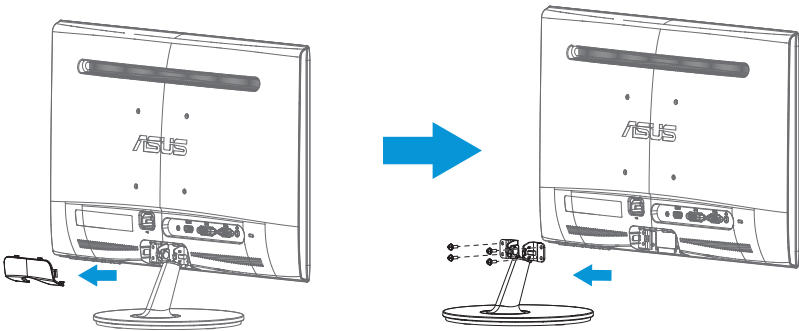
The detachable stand of the VS229/VS239 Series LCD monitor is specially designed for VESA wall mount.

### To detach the arm/stand:

1. Disconnect power and signal cables. Carefully put the front of the monitor face down on a clean table.
2. Use your fingers gently pull away the plate that covers the stand neck. Use a screwdriver to remove the four screws that secure the stand to the monitor.
3. Detach the stand from the monitor.



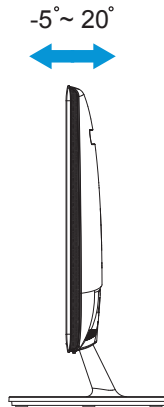
- We recommend that you cover the table surface with soft cloth to prevent damage to the monitor.
- Hold the stand of the monitor while removing the screws.



- The VESA wall mount kit ( 100 x 100 mm) is purchased separately.
- Use only the UL Listed Wall Mount Bracket with minimum weight/ load according to the model listed in the specification table (Screw size: M4 x 10 mm).

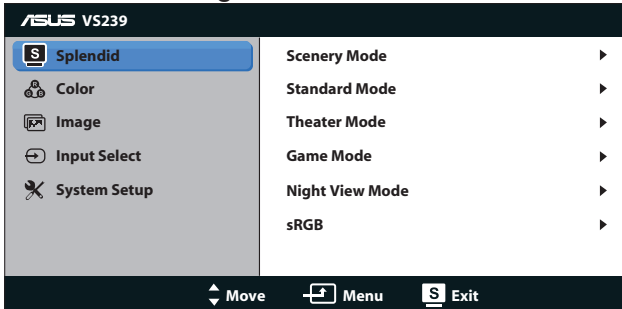
## 2.2 Adjusting the monitor

- 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 while changing its angle.
- You can adjust the monitor's angle from  $-5^{\circ}$  to  $20^{\circ}$ .



## 3.1 OSD (On-Screen Display) menu

### 3.1.1 How to reconfigure

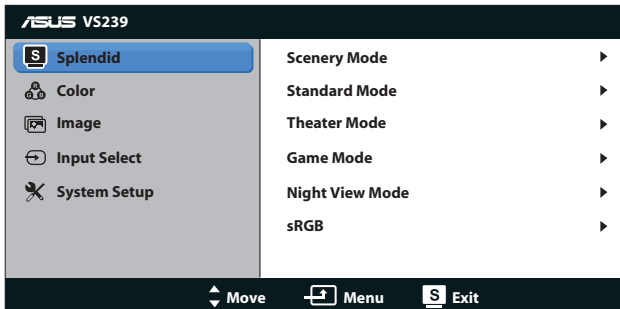


1. Press the [MENU] button to activate the OSD menu.
2. Press ▼ and ▲ to navigate through the functions. Highlight and activate the desired function by pressing the [MENU] button. If the function selected has a sub-menu, press ▼ and ▲ again to navigate through the sub-menu functions. Highlight and activate the desired sub-menu function by pressing the [MENU] button.
3. Press ▼ and ▲ to change the settings of the selected function.
4. To exit the OSD menu, press the **S** button. Repeat step 2 and step 3 to adjust any other function.

### 3.1.2 OSD Function Introduction

#### 1. Splendid

This function contains six 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.



- **Scenery Mode:** This is the best choice for scenery photo displaying with SPLENDID™ Video Enhancement.



- **Standard Mode:** This is the best choice for document editing with SPLENDID™ Video Enhancement.
- **Theater Mode:** This is the best choice for movie watching with SPLENDID™ Video Enhancement.
- **Game Mode:** This is the best choice for game playing with SPLENDID™ Video Enhancement.
- **Night View Mode:** This is the best choice for playing dark-scene game or watching movie with SPLENDID™ Video Enhancement.
- **sRGB:** This is the best choice for viewing photos and graphics from PCs.

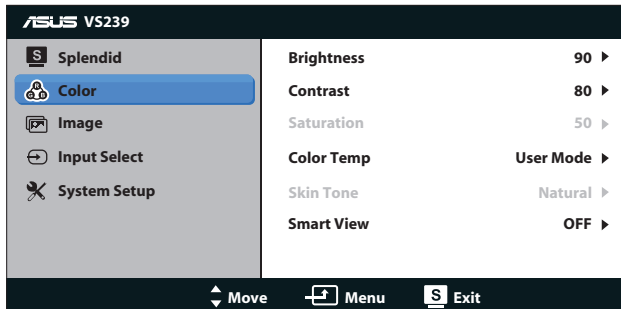


In the **Standard Mode**, the **Saturation**, **Skin Tone**, **Sharpness**, and **ASCR** functions are not user-configurable.

In the **sRGB**, the **Brightness**, **Contrast**, **Saturation**, **Color Temp.**, **Skin Tone**, **Sharpness**, and **ASCR** functions are not user-configurable.

## 2. Color

Select the image color you like from this function.



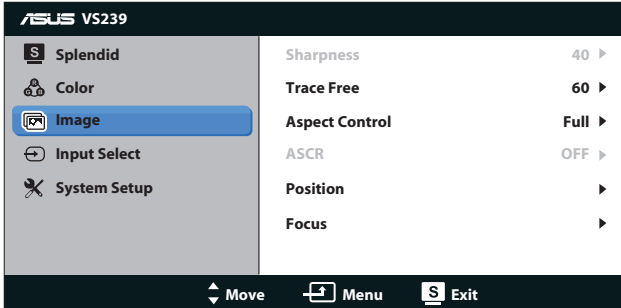
- **Brightness:** The adjusting range is from 0 to 100. The ✨ button is also a hotkey to activate this function.
- **Contrast:** The adjusting range is from 0 to 100.
- **Saturation:** The adjusting range is from 0 to 100.
- **Color Temp.:** Contain three preset color modes (Cool, Normal, Warm) and one User Mode.
- **Skin Tone:** Contain 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.

### 3. Image

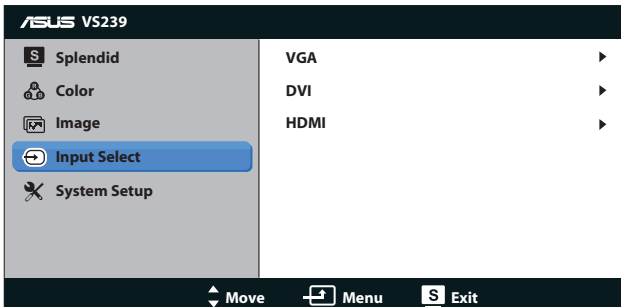
You can adjust the image Sharpness, Aspect Control, Position (VGA only), and Focus (VGA only) from this main function.



- **Sharpness:** Adjust the picture sharpness. The adjusting range is from 0 to 100. (Only available for selecting “Standard Mode” in Splendid menu.)
- **Trace Free:** Speeds up the response time by Over Drive technology. The adjusting range is from lower 0 to faster 100. (Available for model VS229H-P, VS239H-P only.)
- **Aspect Control:** Adjust the aspect ratio to “Full”, “4:3”, or “Over Scan”. (The “Over Scan” ratio is only available for HDMI input.)
- **ASCR:** Select ON or OFF to enable or disable dynamic contrast ratio function. (ASCR: ASUS Smart Contrast Ratio. Disabled at “Standard Mode”.)
- **Position:** Adjust 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:** Reduce Horizontal-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.)

### 4. Input Select

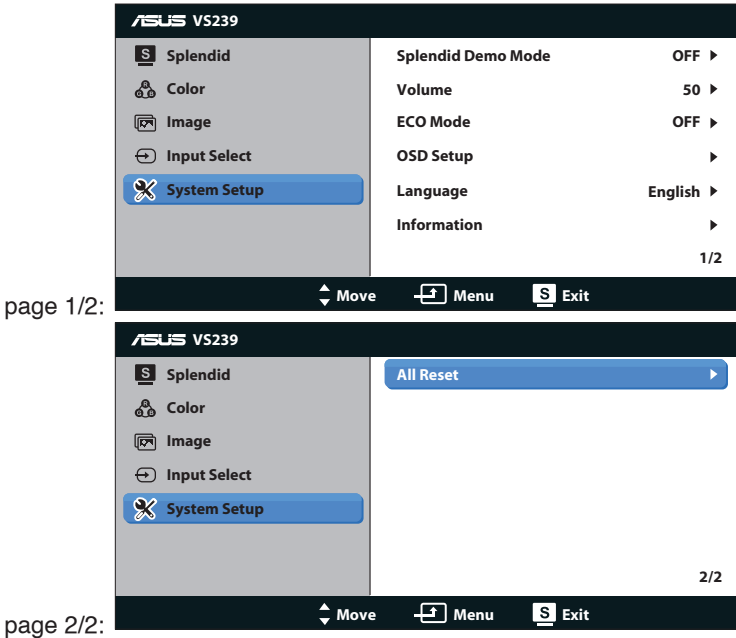
Select the input source from **VGA**, **DVI**, or **HDMI**.



- **DVI:** Available for model VS229N/NR/H/HR/H-P, VS239N/NR/H/HR/H-P only.
- **HDMI:** Available for model VS229H/HR/H-P, VS239H/HR/H-P only.

## 5. System Setup

Adjust the system configuration.



- **Splendid Demo Mode:** Activate the demo mode for the Splendid function.
- **Volume:** Adjust the earphone output volume level. The adjusting range is from 0 to 100. (Available for model VS229H/HR/H-P, VS239H/HR/H-P only.)
- **ECO Mode:** Activate the ecology mode for power saving. (Some gray levels may not be distinguished if ECO is ON. Its brightness is lower than that when setting the Contrast Ratio to 100.)
- **OSD Setup:** Adjust the horizontal position (H-Position), vertical position (V-Position), OSD Timeout, DDC/CI, and Transparency of the OSD screen.
- **Language:** Select OSD language. The selections are English, French, German, Spanish, Italian, Dutch, Russian, Traditional Chinese, Simplified Chinese, and Japanese.

- **Information:** Display the monitor information of Input Port, Resolution, H-freq., V-freq, and Model Name.
- **All Reset:** Set to “Yes” to revert all settings to the factory default status.

## 3.2 Specifications

Model	VS229D/N/H	VS239N/H
Panel Size	21.5"W(54.6 cm)	23"W (58.4 cm)
Max. Resolution	1920 x 1080 (FHD)	
Backlight Tech.	LED Backlight Technology	
Brightness (Typ.)	250cd/m <sup>2</sup>	
Intrinsic Contrast Ratio (Typ.)	1000:1	
Viewing Angle (CR=10)	≥ 178°(H) / ≥ 178°(V)	
Display Colors	16.7 M	
Response Time	14ms	
Earphone Output	VS229D/N: No VS229H: Yes	VS239N: No VS239H: Yes
Sound from HDMI	VS229D/N: No VS229H: Yes	VS239N: No VS239H: Yes
HDMI input (HDMI 1.3)	VS229D/N: No VS229H: Yes	VS239N: No VS239H: Yes
DVI input	VS229D: No VS229N/H: Yes	Yes
D-Sub input	Yes	
Power ON Consumption	Compliant with Energy Star 5.0	
Power Saving Mode	< 1W	
Power OFF Mode	< 1W	
Tilt	-5° ~ +20°	
VESA Wall Mounting	Yes (100mm x 100mm)	
Phys. Dimension (WxHxD)	514 x 386 x 200 mm	552 x 400 x 200 mm
Box Dimension (WxHxD)	566 x 130 x 443 mm	608 x 130 x 460 mm
Net Weight (Esti.)	3.1 kg	3.5 kg
Gross Weight (Esti.)	5.2 kg	5.9 kg
Voltage Rating	AC 100~240V(Built-in)	

\*Specifications subject to change without notice.




Model	VS229NR/HR	VS239NR/HR
Panel Size	21.5"W(54.6 cm)	23"W (58.4 cm)
Max. Resolution	1920 x 1080 (FHD)	
Backlight Tech.	LED Backlight Technology	
Brightness (Typ.)	250cd/m <sup>2</sup>	
Intrinsic Contrast Ratio (Typ.)	1000:1	
Viewing Angle (CR=10)	≥ 178°(H) / ≥ 178°(V)	
Display Colors	16.7 M	
Response Time	5ms (G to G <sub>e</sub> )	
Earphone Output	VS229NR:No VS229HR:Yes	VS239NR:No VS239HR:Yes
Sound from HDMI	VS229NR:No VS229HR:Yes	VS239NR:No VS239HR:Yes
HDMI input (HDMI 1.3)	VS229NR:No VS229HR:Yes	VS239NR:No VS239HR:Yes
DVI input	Yes	Yes
D-Sub input	Yes	
Power ON Consumption	Compliant with Energy Star 5.0	
Power Saving Mode	< 1W	
Power OFF Mode	< 1W	
Tilt	-5° ~ +20°	
VESA Wall Mounting	Yes (100mm x 100mm)	
Phys. Dimension (WxHxD)	514 x 386 x 200 mm	552 x 400 x 200 mm
Box Dimension (WxHxD)	566 x 130 x 443 mm	608 x 130 x 460 mm
Net Weight (Esti.)	3.1 kg	3.5 kg
Gross Weight (Esti.)	5.2 kg	5.9 kg
Voltage Rating	AC 100~240V(Built-in)	

\*Specifications subject to change without notice.

<b>Model</b>	<b>VS229H-P</b>	<b>VS239H-P</b>
Panel Size	21.5"W(54.6 cm)	23"W (58.4 cm)
Max. Resolution	1920 x 1080 (FHD)	
Backlight Tech.	LED Backlight Technology	
Brightness (Typ.)	250cd/m <sup>2</sup>	
Intrinsic Contrast Ratio (Typ.)	1000:1	
Viewing Angle (CR=10)	≥ 178°(H) / ≥ 178°(V)	
Display Colors	16.7 M	
Response Time	5ms (Gray to Gray)	
Earphone Output	Yes	
Sound from HDMI	Yes	
HDMI input (HDMI 1.3)	Yes	
DVI input	Yes	
D-Sub input	Yes	
Power ON Consumption	Compliant with Energy Star 5.0	
Power Saving Mode	< 1W	
Power OFF Mode	< 1W	
Tilt	-5° ~ +20°	
VESA Wall Mounting	Yes (100mm x 100mm)	
Phys. Dimension (WxHxD)	514 x 386 x 200 mm	552 x 400 x 200 mm
Box Dimension (WxHxD)	566 x 130 x 443 mm	608 x 130 x 460 mm
Net Weight (Esti.)	3.1 kg	3.5 kg
Gross Weight (Esti.)	5.2 kg	5.9 kg
Voltage Rating	AC 100~240V(Built-in)	

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

## 3.3 Troubleshooting (FAQ)

Problem	Possible Solution
Power LED is not ON	<ul style="list-style-type: none"> <li>Press the  button to check if the monitor is in the ON mode.</li> <li>Check if the power cord is properly connected to the monitor and the power outlet.</li> </ul>
The power LED lights amber and there is no screen image	<ul style="list-style-type: none"> <li>Check if the monitor and the computer are in the ON mode.</li> <li>Make sure the signal cable is properly connected the monitor and the computer.</li> <li>Inspect the signal cable and make sure none of the pins are bent.</li> <li>Connect the computer with another available monitor to check if the computer is properly working.</li> </ul>
Screen image is too light or dark	<ul style="list-style-type: none"> <li>Adjust the Contrast and Brightness settings via OSD.</li> </ul>
Screen image is not centered or sized properly	<ul style="list-style-type: none"> <li>Press the  button for two seconds to automatically adjust the image.</li> <li>Adjust the H-Position or V-Position settings via OSD.</li> </ul>
Screen image bounces or a wave pattern is present in the image	<ul style="list-style-type: none"> <li>Make sure the signal cable is properly connected to the monitor and the computer.</li> <li>Move electrical devices that may cause electrical interference.</li> </ul>
Screen image has color defects (white does not look white)	<ul style="list-style-type: none"> <li>Inspect the signal cable and make sure that none of the pins are bent.</li> <li>Perform Reset via OSD.</li> <li>Adjust the R/G/B color settings or select the Color Temperature via OSD.</li> </ul>
Screen image is blurry or fuzzy	<ul style="list-style-type: none"> <li>Press the  button for two seconds to automatically adjust the image (for VGA mode only).</li> <li>Adjust the Phase and Clock settings via OSD.</li> </ul>
No sound or sound is low (For model VS229H/HR/H-P, VS239H/HR/H-P)	<ul style="list-style-type: none"> <li>Make sure the audio cable is properly connected to the monitor.</li> <li>Adjust the volume settings of both your monitor and computer.</li> <li>Make sure the computer sound card driver is properly installed and activated.</li> </ul>



## 3.4 Supported Timing List

### VESA / IBM Modes Support Timing (D-SUB, DVI-D, HDMI inputs)

Resolution	Refresh Rate	Horizontal Frequency
640 x 350	70Hz	31.469KHz
640 x 480	60Hz	31.469KHz
640 x 480	67Hz	35KHz
640 x 480	75Hz	37.5KHz
720 x 400	70Hz	31.469KHz
800 x 600	56Hz	35.156KHz
800 x 600	60Hz	37.879KHz
800 x 600	72Hz	48.077KHz
800 x 600	75Hz	46.875KHz
848 x 480	60Hz	31.02KHz
1024 x 768	60Hz	48.363KHz
1024 x 768	70Hz	56.476KHz
1024 x 768	75Hz	60.023KHz
1152 x 864	75Hz	67.5KHz
1280 x 720	60Hz	44.772KHz
1280 x 800	60Hz	49.702KHz
1280 x 960	60Hz	60KHz
1280 x 1024	60Hz	63.981KHz
1280 x 1024	75Hz	79.976KHz
1366 x 768	60Hz	47.712KHz
1440 x 900	60Hz	55.935KHz
1680 x 1050	60Hz	65.29KHz
1680 x 1050	60Hz	64.674KHz
1920 x 1080	60Hz	67.5KHz
1920 x 1080	60Hz	66.587KHz

### HDMI 1.3 CEA-861 Formats Supported Timing (for HDMI input)

Resolution	Refresh Rate	Horizontal Frequency
640 x 480P	59.94 / 60Hz	31.469 / 31.5KHz
720 x 480P	59.94 / 60Hz	31.469 / 31.5KHz
720 x 576P	50Hz	31.25KHz
1280 x 720P	50Hz	37.5KHz
1280 x 720P	59.94 / 60Hz	44.955 / 45KHz
1440 x 480P	59.94 / 60Hz	31.469 / 31.5KHz
1440 x 576P	50Hz	31.25KHz
1920 x 1080i	50Hz	28.125KHz
1920 x 1080i	59.94 / 60Hz	33.716 / 33.75KHz
1920 x 1080P	50Hz	56.25KHz
1920 x 1080P	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.