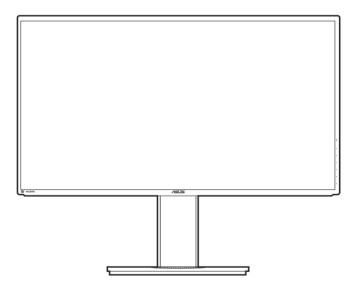


# User Guide





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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.



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<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.

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.



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 <u>http://csr.asus.com/english/Takeback.htm</u> for detail recycling information in different region.



## **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 <u>www.tcodevelopment.com</u>, 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

# 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:

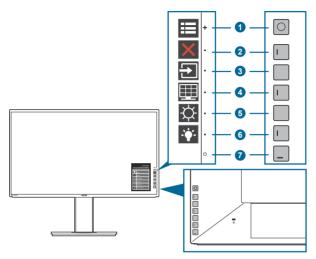
- ✓ LCD monitor
- ✓ Quick start guide
- ✓ Warranty card
- ✓ Power cord
- ✓ HDMI cable
- ✓ DisplayPort cable
- ✓ VGA cable
- ✓ Dual-DVI cable
- ✓ Audio cable
- USB 3.0 cable
- ✓ Cable tie



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

# 1.3 Monitor introduction

# 1.3.1 Front view



- 1. Menu (5-way) button:
  - Press this button to enter the OSD menu.
  - Enacts the selected OSD menu items.
  - Increases/Decreases values or moves your selection up/down/left/right.
- 2. X Close button:
  - Exits the OSD menu.
  - Toggles the Key Lock function between on and off with a long press for 5 seconds.
- 3. Input select button:
  - Selects an available input source.

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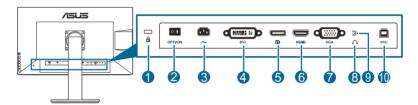
Press button (Input Select button) to display VGA, Dual-DVI, HDMI, or DisplayPort signals after you connect VGA/Dual-DVI/HDMI/DisplayPort cable with the monitor.

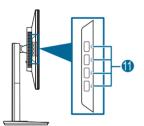
- 4. E QuickFit button:
  - This is a hotkey to activate the QuickFit function designed for alignment.
  - The QuickFit function contains 10 pages of common grid patterns, paper sizes, and photo sizes. (Please refer to 1.3.3 QuickFit Function).
- 5. 🔅 Shortcut **1** 
  - Default: Brightness hotkey
  - To change the hotkey function, go to the Shortcut > Shortcut 1 menu.

- 6. \* Shortcut 2
  - Default: Blue light filter hotkey
  - To change the hotkey function, go to the Shortcut > Shortcut 2 menu.
- 7. U 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

# 1.3.2 Back view





## **Rear connectors**

- 1. Kensington lock slot.
- 2. Power switch. Press the switch to turn on/off power.
- 3. AC-IN port. This port connects the power cord.
- 4. **DVI port**. This 24-pin port is for PC (Personal Computer) DVI-D digital signal connection.
- 5. **DisplayPort in**. This port is for connection with a DisplayPort compatible device.
- 6. HDMI port. This port is for connection with an HDMI compatible device.
- 7. VGA port. This 15-pin port is for PC VGA connection.

- 8. Earphone jack. This port is only available when an HDMI/DisplayPort cable is connected.
- 9. Audio-in port. This port connects PC audio source by the bundled audio cable.
- **10. USB 3.0 upstream port**. This port is for connection with a USB upstream cable. The connection enables the USB ports on the monitor.
- 11. USB 3.0 downstream ports. These ports are for connection with USB devices, such as USB keyboard/mouse, USB flash drive, etc.



This monitor is Super-Speed USB 3.0 compatible.

# 1.3.3 QuickFit Function

The QuickFit function contains three kinds of patterns: (1) Grid patterns (2) Paper size (3) Photo size. To activate the patterns, press the QuickFit button. Use the Menu (5-way) button to select a desired pattern. You can move the button up/ down/left/right to change the pattern's position if needed. Note that all the patterns can be moved left/right accroding to your need, but may have limited range for moving up/down.

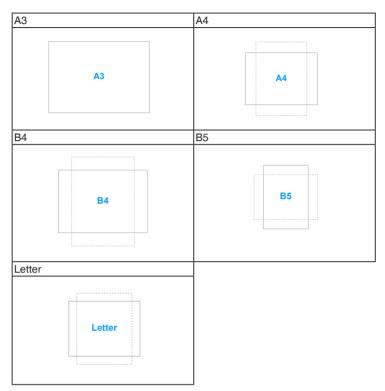
## 1. Grid patterns

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

Alignment G	irid	Centimeters
Inches	Alignment Grid	Centimeters
	Inches	

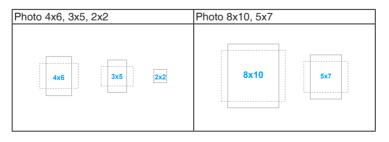
## 2. Paper size

QuickFit provides several 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/base (for VESA wall mount)

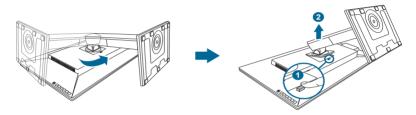
The detachable arm/base of this monitor is specially designed for VESA wall mount.

To detach the arm/base:

- 1. Have the front of the monitor face down on a table.
- Press the release button, and then detach the arm/base from the monitor (Figure 2).

(Figure 1)

(Figure 2)





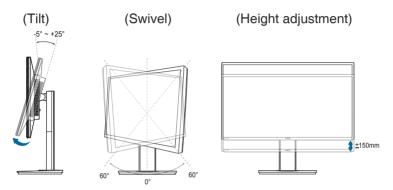
We recommend that you cover the table surface with soft cloth to prevent damage to the monitor.



- The VESA wall mount kit (100 x 100 mm) is purchased separately.
- Use only the UL Listed Wall Mount Bracket with minimum weight/load 22.7kg (Screw size: M4 x 10 mm)

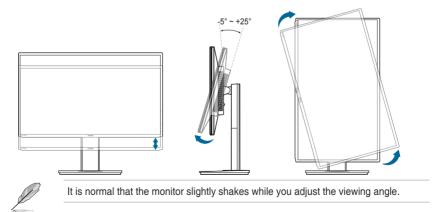
# 2.2 Adjusting the monitor

- 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 when you change its angle.
- You can adjust the monitor's angle from +25° to -5°, and it allows 60° swivel adjustment from either left or right. You can also adjust the monitor's height within +/- 150 mm.



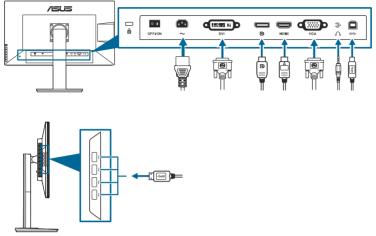
## **Pivoting the monitor**

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



# 2.3 Connecting the cables

Connect the cables as the following instructions:



- **To connect the power cord**: Connect one end of the power cord securely to the monitor's AC input port, the other end to a power outlet.
- To connect the VGA/Dual-DVI/HDMI/DisplayPort cable:
  - a. Plug one end of the VGA/Dual-DVI/HDMI/DisplayPort cable to the monitor's VGA/Dual-DVI/HDMI/DisplayPort jack.
  - b. Connect the other end of the VGA/Dual-DVI/HDMI/DisplayPort cable to your computer's VGA/Dual-DVI/HDMI/DisplayPort jack.
  - c. Tighten the two screws to secure the VGA/Dual-DVI 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.
- **To use the earphone:** connect the end with plug type to the monitor's earphone jack when an HDMI or DisplayPort signal is fed.
- To use the USB 3.0 ports: Take the supplied USB 3.0 cable, and plug the smaller end (type B) of the USB upstream cable to the monitor's USB upstream port, and the larger end (type A) to your computer's USB 3.0 port. Make sure your computer is installed with the lastest Windows 7/Windows 8 operating system. That will enable the USB ports on the monitor to work.



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

<u>/15U5°</u>	Standard Mode	PB328 DisplayPort 2560 x 1440 @ 60Hz
S Splendid	Standard Mode	
- Blue Light Filter	sRGB Mode	
Color	Scenery Mode	
Image	Reading Mode	>
(I) Sound	Darkroom Mode	
PIP/PBP Setting	User Mode 1	
Input Select	User Mode 2	
More		

- 1. Press the Menu (5-way) button to activate the OSD menu.
- Move the Menu (5-way) button up/down/left/right to navigate through the functions. Highlight the desired function and press the Menu (5-way) button to activate it. If the function selected has a sub-menu, move the Menu (5-way) button up/down to navigate through the sub-menu functions. Highlight the desired sub-menu function and press the Menu (5-way) button or move the Menu (5-way) button to activate it.
- 3. Move the 🗮 Menu (5-way) button up/down to change the settings of the selected function.

## 3.1.2 OSD function introduction

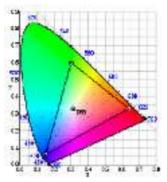
## 1. Splendid

This function contains 7 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.

<u>/5U5°</u>	Standard Mod	PB328 DisplayPort 2560 x 1440 @ 60Hz	
S Splendid	Standard Mode		
Blue Light Filter	sRGB Mode		
Color	Scenery Mode		
Image	Reading Mode		
()) Sound	Darkroom Mode		
PIP/PBP Setting	User Mode 1		
Input Select	User Mode 2		
More			

- **Standard Mode**: Best choice for document editing with SplendidPlus Video Enhancement.
- **sRGB Mode**: Compatible with sRGB color space, sRGB mode is the best choice for document editing.

Color	Whit	e Point	Primaries					
Space	Xw	Yw	Xr	Yr	Xg	Yg	Xb	Yb
sRGB	0.3127	0.329	0.64	0.33	0.3	0.6	0.15	0.06



- Scenery Mode: Best choice for scenery photo display with SplendidPlus Video Enhancement.
- **Reading Mode**: This is the best choice for book reading.
- **Darkroom Mode**: This is the best choice for a weak ambient light environment.
- User Mode 1/User Mode 2: More items are adjustable in the color menu.

Function		Standard Mode	sRGB Mode	Scenery Mode	-	Darkroom Mode	User Mode 1/ User Mode 2
Brightness		Yes	Yes	Yes	Yes	Yes	Yes
Contrast		Yes	No	No	No	No	Yes
Saturation		No	No	No	No	No	Yes
Hue		No	No	No	No	No	Yes
Color Temp	perature	Yes	No	No	No	No	Yes
Gamma		Yes	No	No	No	No	Yes
	Six-axis Hue	No	No	No	No	No	Yes
Advanced Setting	Six-axis Saturation	No	No	No	No	No	Yes
	Gain	No	No	No	No	No	Yes
	Offset	No	No	No	No	No	Yes

## 2. Blue Light Fiter

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

/SUS°	Standard Mode Di	PB328 isplayPort 2560 x 1440 @ 60Hz
S Splendid	Level 0	
	Level 1	
Color	Level 2	
Image	Level 3	×
(I) Sound	Level 4	
PIP/PBP Setting		
Input Select		
More		

- 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 userconfigurable.

#### 3. Color

Set a desired color setting from this menu.

	Standard Mod	PB328 DisplayPort 2560 x 1440 @ 60Hz
S Splendid	Brightness	
- Blue Light Filter	Contrast	4
L Color	Saturation	
Image	Hue	>
() Sound	Color Temp.	
PIP/PBP Setting	Gamma	
Input Select	Advanced Setting	
More	Color Reset	

- 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.
- Hue: Shifts the image color between green and purple.
- Color Temp.: Contains 4 modes including 9300K, 6500K, 5500K and 5000K.
- Gamma: Allows you to set the color mode to 2.4, 2.2, 2.0 or 1.8.
- Advanced Setting:

- \* 6-axis Hue adjustment.
- \* 6-axis Saturation adjustment.
- \* Adjusts the gain levels for R, G, B.
- \* Adjusts the black level offset values for R, G, B.

## Color Reset:

- Current Splendid color mode reset: Resets the color settings of current color mode to the factory default value.
- \* All Splendid color mode reset: Resets the color settings of all color modes to the factory default value.

#### 4. Image

Set the image related setting from this menu.

<u>/5US°</u>	Standard Mo	PB328 DisplayPort 2560 x 1440 @ 60Hz
S Splendid	Sharpness	
Blue Light Filter	Trace Free	4
Color	Aspect Control	
image >	VividPixel	$\succ$
() Sound	ASCR	
PIP/PBP Setting	Position	
Input Select	Focus	
More	Auto Adjust	

- 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.
- **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

You can adjust Volume, Mute and Source from this menu.

	Star	idard Mode	PB328 DisplayPort 2560 x 1440 @ 60Hz	
S Splendid	Volume			
Blue Light Filter	Mute			
Color	Source			
Image				×
() Sound				
PIP/PBP Setting				
Input Select				
More				

- 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. PIP/PBP Setting

The PIP/PBP Setting allows you to open up another sub-window connected from another video source besides the main-window from your original video source. By activating this function, you can have two pictures from two different video sources displayed by the monitor.

75US°	PB328 Standard Mode DisplayPort 2560 x 1440 @ 60Hz	
S Splendid	PIP/PBP Mode	
Blue Light Filter	PIP/PBP Source	
Color	PIP Size	×
Image	PIP Position	×
() Sound	Swap	
PIP/PBP Setting		
Input Select		
More		

• **PIP/PBP Mode**: Turns the PIP or PBP function on or off.

- **PIP/PBP Source**: Selects the video input source from among VGA, DVI, HDMI and DisplayPort.
- **PIP Size**: Adjusts the PIP size to Small, Middle, or Large. (Only available for the PIP mode)
- **PIP Position**: Adjusts the position of the sub-window to Right-Top, Left-Top, Right-Bottom, or Left-Bottom. (Only available for the PIP mode)
- SWAP: Switches the sources of the main and sub-windows.

$\sim$	Main-window				
Sub- window		VGA	DVI	HDMI	DisplayPort
	VGA		Yes	Yes	Yes
	DVI	Yes		Yes	Yes
	HDMI	Yes	Yes		Yes
	DisplayPort	Yes	Yes	Yes	

## 7. Input Select

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

	Standard Mo	PB328 de DisplayPort 2560 x 1440 @ 60Hz
S Splendid	VGA 🗸	
Blue Light Filter	DVI	
Color	HDMI	
Image	DisplayPort	$\succ$
() Sound		
PIP/PBP Setting		
Enput Select		
More		

## 8. System Setup

Allows you to adjust the system.

<u>/5U5°</u>	:	Standard Mode	PB328 DisplayPort 2560 x 1440 @ 60Hz	
Back	Splendid Demo Mode			
🗴 System Setup	ECO Mode			•
Shortcut	OSD Setup			
	Language			$\times$
	DisplayPort			
	Key Lock			
	Information			
	More			

- **Splendid Demo Mode:** Splits the screen into two for Splendid modes comparison. (Scenery mode only)
- 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.
    - Adjusts the OSD rotation.
- 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.
- DisplayPort: Selects DP 1.1 or DP 1.2.
- **Keylock**: To disable all function keys. Press the second button from the top over five seconds to cancel the key lock function.
- **Information**: Shows the monitor information.
- Power Indicator: Turns the power LED indicator on/off.
- All Reset: "Yes" allows you to restore the default settings.

## 9. Shortcut

Defines the functions for Shortcut 1 and 2 buttons.

/5U5°	Standard Mod	PB328 DisplayPort 2560 x 1440 @ 60Hz	
Back	Shortcut 1		
X System Setup	Shortcut 2		
Shortcut			

• 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: Brightness, Auto Adjust, Contrast, PIP/PBP Setting, Color Temp., Volume, User Mode 1, User Mode 2.

# 3.2 Specifications summary

Panel Type	TFT LCD		
Panel size	32.0" (16:9, 81.3 cm) wide screen		
Max. Resolution	2560 x 1440		
Pixel pitch	0.277 mm		
Brightness (Typ.)	300 cd/m <sup>2</sup>		
Contrast Ratio (Typ.)	3000:1		
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	4 ms (Gray to gray)		
SplendidPlus Video Enhancement	Yes		
SplendidPlus selection	7 video preset modes		
Auto adjustment	Yes		
Color temperature selection	4 color temperatures		
Analog input	D-sub		
Digital input	DVI (Dual-Link), HDMI v1.4, DisplayPort v1.2		
Earphone jack	Yes		
USB 3.0 port	Upstream x 1, Downstream x 4		
Colors	Black		
Power LED	White (On)/Amber (Standby)		
Tilt	+25° ~ -5°		
Swivel	+60°~ -60°		
Height Adjustment	150 mm		
Kensington lock	Yes		
AC input voltage	AC: 100~240V		
Power consumption	Power On: < 89.9 W <sup>**</sup> (Typ.), Standby: < 0.5 W (Typ.), Power Off: 0 W (Switch off)		
Temperature (Operating)	0°C~40°C		
Temperature (Non-operating)	-20°C~+60°C		
Dimension (W x H x D) with	734.4 mm x 615 mm x 240 mm (machine)		
stand	847 mm x 552 mm x 350 mm (package)		
Weight (Esti.)	11.8 kg (Net); 16.5 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, HDMI cable, DisplayPort cable, VGA cable, Dual-DVI cable, Audio cable, USB cable, Quick start guide, Warranty card, Cable tie		
Regulation approvals	TCO 7.0, Energy Star, BSMI, CU, VCCI, ISO9241-307, PSE, UL/cUL, CB, CE, ErP, FCC, CCC, C-Tick, Ukraine, KCC, KC, e-standby, J-MOSS, RoHS, Windows 7 & 8 WHQL, WEEE Compliance		

\*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	<ul> <li>Press the <sup>(1)</sup> 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> <li>Check if the power switch is ON.</li> </ul>		
The power LED lights amber and there is no screen image	<ul> <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> <li>Adjust the Contrast and Brightness settings via OSD.</li> </ul>		
Screen image is not centered or sized properly	<ul> <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> <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> <li>Inspect the signal cable and make sure that none of the pins are bent.</li> <li>Perform All 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> <li>Adjust the Phase and Clock settings via OSD.</li> </ul>		
No sound or sound is low	<ul> <li>Ensure that the HDMI/DisplayPort cable is properly connected to the monitor and the computer.</li> <li>Adjust the volume settings of both your monitor and HDMI/DisplayPort device.</li> <li>Ensure that the computer sound card driver is properly installed and activated.</li> </ul>		

# 3.4 Supported operating modes

Resolution	Horizontal	Vertical Frequency	Pixel (MHz)
Frequency	Frequency (KHz)	(Hz)	
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	74.038(P)	59.95(N)	154
Blanking)			
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