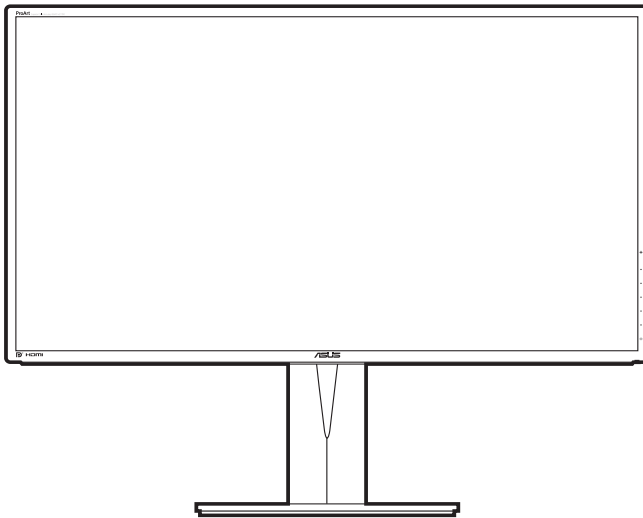


ASUS[®]

PA328 Series LCD Monitor

User Guide



HDMI[™]
HIGH DEFINITION MULTIMEDIA INTERFACE

First Edition

October 2014

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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® 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 Règlement 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 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, 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.



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:

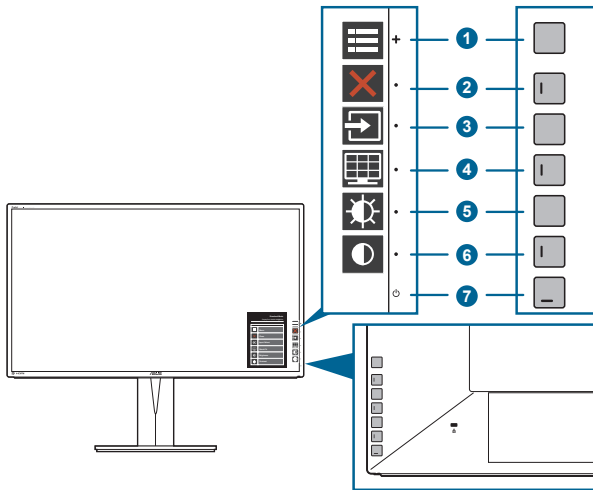
- ✓ LCD monitor
- ✓ Quick start guide
- ✓ Warranty card
- ✓ Power cord
- ✓ HDMI cable
- ✓ MHL cable (optional)
- ✓ DisplayPort cable (optional)
- ✓ DisplayPort cable (Mini-DP to DP)
- ✓ USB 3.0 cable
- ✓ Support CD
- ✓ Cable tie
- ✓ Color Calibration Testing Report






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.  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.



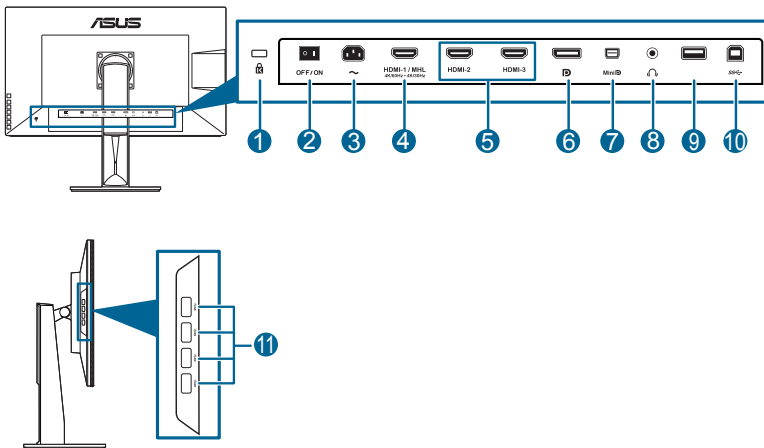
Press  button (Input Select button) to display HDMI-1/MHL, HDMI-2, HDMI-3, DisplayPort, mini DisplayPort signals after you connect HDMI/DisplayPort/Mini DisplayPort cable with the monitor.

4.  QuickFit button:
 - This is a hotkey to activate the QuickFit function designed for alignment.
 - The QuickFit function contains 8 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: Contrast hotkey
 - To change the hotkey function, go to the Shortcut > Shortcut 2 menu.
7. **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. **HDMI (MHL) port.** This port is for connection with an HDMI (MHL) compatible device.
5. **HDMI port.** This port is for connection with an HDMI compatible device.
6. **DisplayPort in.** This port is for connection with a DisplayPort compatible device.
7. **Mini DisplayPort in.** This port is for connection with a Mini DisplayPort compatible device.

- 8. **Earphone jack.**
- 9. **USB 2.0 A-type.** This port is for updating firmware only.
- 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.



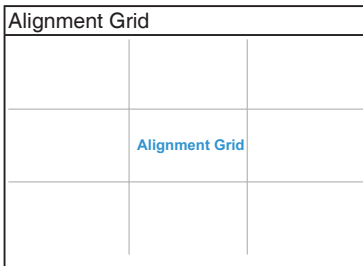
-
- HDMI-1/MHL port supports HDMI 2.0, 3840 x 2160-60Hz and MHL 3.0, 3840 x 2160-30Hz.
 - This monitor is Super-Speed USB 3.0 compatible.
-

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 according to your need, but may have limited range for moving up/down.

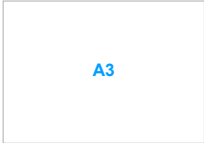
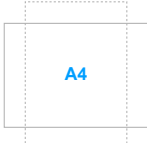
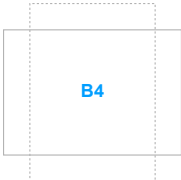


1. Grid patterns

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





2. Paper size

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

A3  A diagram showing a solid rectangular box representing the A3 paper size. The text "A3" is centered in blue within the box.	A4  A diagram showing a solid rectangular box representing the A4 paper size, centered within a larger dashed rectangular box representing the A3 paper size. The text "A4" is centered in blue within the solid box.
B4  A diagram showing a solid rectangular box representing the B4 paper size, centered within a larger dashed rectangular box representing the B5 paper size. The text "B4" is centered in blue within the solid box.	B5  A diagram showing a solid rectangular box representing the B5 paper size, centered within a larger dashed rectangular box representing the B4 paper size. The text "B5" is centered in blue within the solid box.
Letter  A diagram showing a solid rectangular box representing the Letter paper size, centered within a larger dashed rectangular box representing the Letter paper size. The text "Letter" is centered in blue within the solid box.	

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.

Photo 4x6, 3x5, 2x2  A diagram showing three photo sizes: a 4x6 photo (solid box), a 3x5 photo (solid box), and a 2x2 photo (solid box). Each photo is centered within a larger dashed rectangular box representing the photo size. The text "4x6", "3x5", and "2x2" are centered in blue within their respective solid boxes.	Photo 8x10, 5x7  A diagram showing two photo sizes: an 8x10 photo (solid box) and a 5x7 photo (solid box). Each photo is centered within a larger dashed rectangular box representing the photo size. The text "8x10" and "5x7" are centered in blue within their respective solid boxes.
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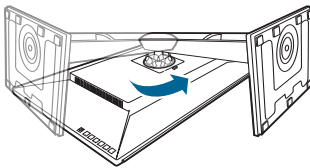
2.1 Detaching the arm/base (for VESA wall mount)

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

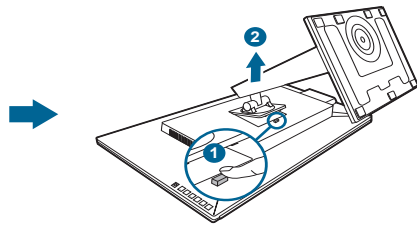
To detach the arm/base:

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

(Figure 1)



(Figure 2)



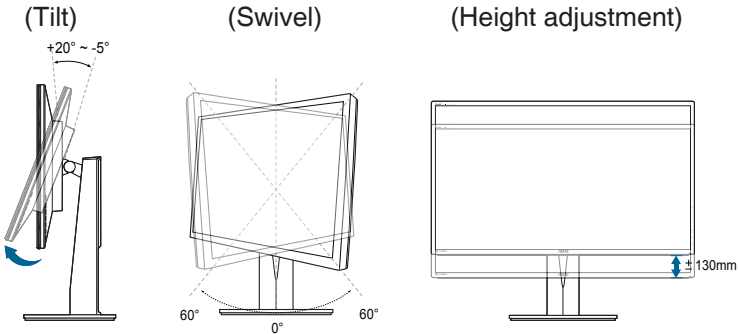
We recommend that you cover the table surface with soft cloth to prevent damage to the monitor.



- 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)
-

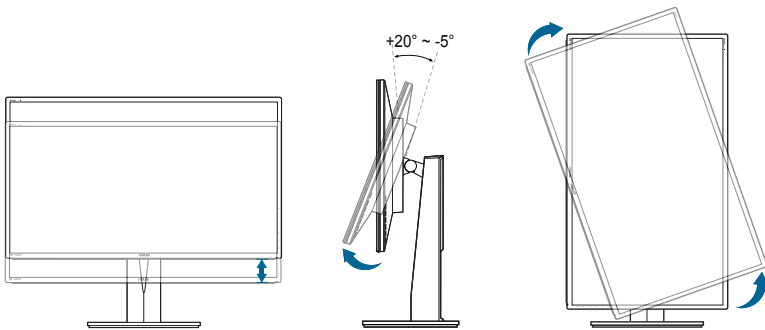
2.2 Adjusting the monitor

- 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 $+20^{\circ}$ to -5° , and it allows 60° swivel adjustment from either left or right. You can also adjust the monitor's height within ± 130 mm.



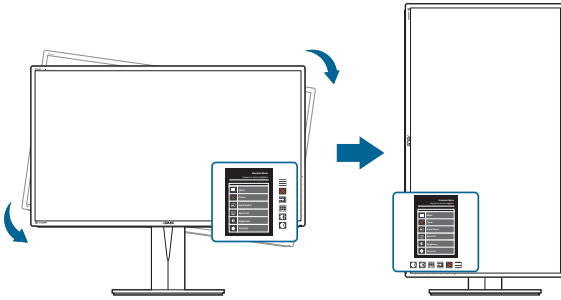
Pivoting the monitor

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.



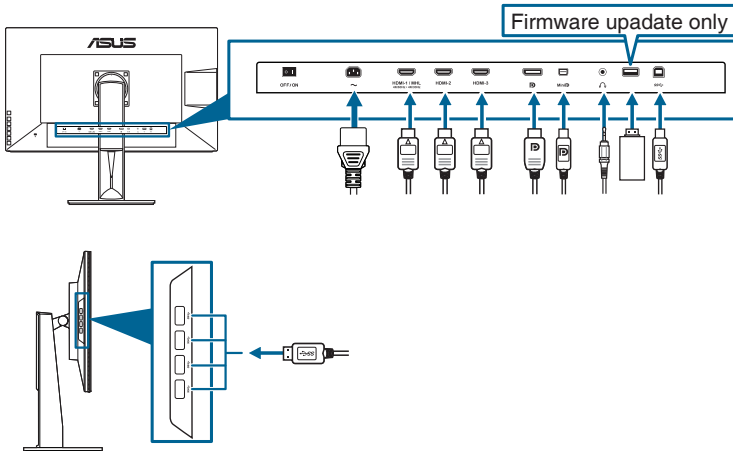
It is normal that the monitor slightly shakes while you adjust the viewing angle.

- The OSD menu item will automatically rotate when the monitor rotates.



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 HDMI/DisplayPort/Mini DisplayPort cable:**
 - Plug one end of the HDMI/DisplayPort/Mini DisplayPort cable to the monitor's HDMI/DisplayPort/Mini DisplayPort jack.
 - Connect the other end of the HDMI/DisplayPort/Mini DisplayPort cable to your computer's HDMI/DisplayPort/Mini DisplayPort jack.
- 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 latest Windows 7/Windows 8 operating system. That will enable the USB ports on the monitor to work.



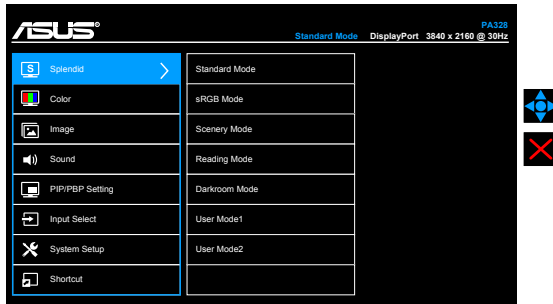
When these cables are connected, you can choose the desired signal from the Input Select item in the OSD menu.










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

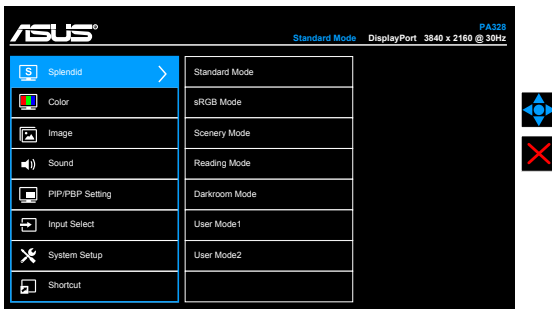


1. Press the  Menu (5-way) button to activate the OSD menu.
2. Move the  Menu (5-way) button up/down/left/right to navigate through the functions. Highlight the desired function and press the  Menu (5-way) button to activate it. If the function selected has a sub-menu, move the  Menu (5-way) button up/down 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.
4. To exit and save the OSD menu, press the  button or move the  Menu (5-way) left repeatedly until the OSD menu disappears. To adjust other functions, repeat steps 1-3.

3.1.2 OSD function introduction

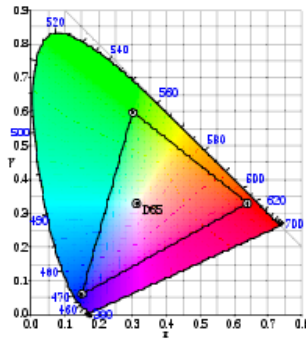
1. Splendid

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.



- **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 Space	White Point		Primaries					
	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

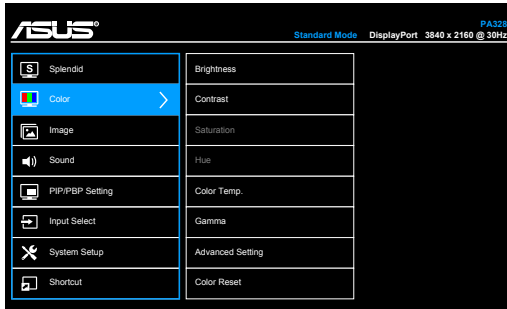


- **Scenery Mode:** Best choice for scenery photo display with SplendidPlus Video Enhancement.
- **Reading Mode:** This is the best choice for book reading.
- **Darkroom Mode:** This is the best choice for a weak ambient light environment.
- **User Mode 1/User Mode 2:** More items are adjustable in the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

Function		Standard Mode	sRGB Mode	Scenery Mode	Reading 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 Temperature		Yes	No	No	No	No	Yes
Gamma		Yes	No	No	No	No	Yes
Advanced Setting	Six-axis Hue	No	No	No	No	No	Yes
	Six-axis Saturation	No	No	No	No	No	Yes
	Gain	No	No	No	No	No	Yes
	Offset	No	No	No	No	No	Yes

2. 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.
- **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 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.

3. 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.

- **Uniformity Compensation:** Adjusts different areas of the screen to reduce any screen uniformity errors, providing consistent brightness and color across the entire screen.
- **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.

4. Sound

You can adjust Volume, Mute and Source 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.

5. 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.

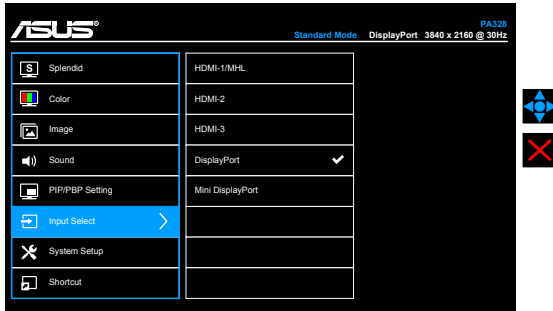


- **PIP/PBP Mode:** Turns the PIP or PBP function on or off.
- **PIP/PBP Source:** Selects the video input source from among HDMI-1/MHL, HDMI-2, HDMI-3, DisplayPort, and Mini DisplayPort.
- **PIP Size:** Adjusts the PIP size to Small, Middle, or Large. (Only available for the PIP mode)
- **PIP Position:** 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.

		Main-window					Mini DisplayPort
		HDMI-1/MHL	HDMI-2	HDMI-3	DisplayPort	Mini DisplayPort	
Sub-window	HDMI-1/MHL	Yes	Yes	Yes	Yes	Yes	Yes
	HDMI-2	Yes	Yes	Yes	Yes	Yes	Yes
	HDMI-3	Yes	Yes	Yes	Yes	Yes	Yes
	DisplayPort	Yes	Yes	Yes	Yes	Yes	Yes
	Mini DisplayPort	Yes	Yes	Yes	Yes	Yes	Yes

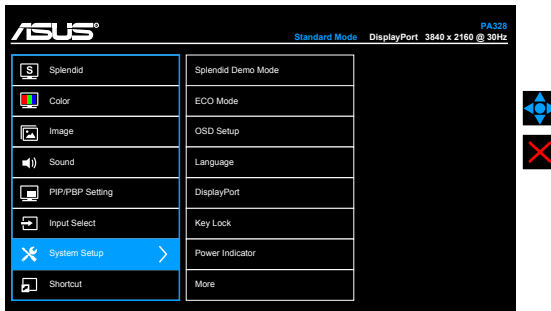
6. Input Select

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



7. System Setup

Allows you to adjust the system.

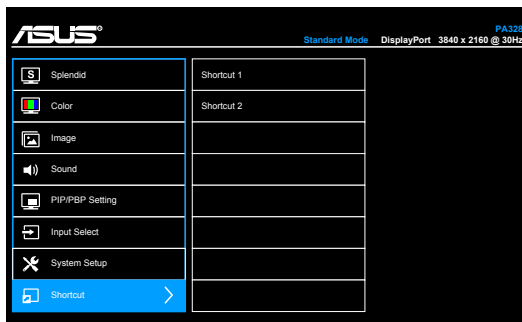


- **Splendid Demo Mode:** Splits the screen into two for Splendid modes comparison. (Scenery mode only)
- **ECO Mode:** reduces power consumption.
- **OSD Setup:**
 - * Adjusts the OSD timeout from 10 to 120 seconds.
 - * Enables or disables the DDC/CI function.
 - * Adjusts the OSD background from opaque 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:** Compatibility with graphic card. Select DP 1.1 or DP 1.2 by graphic card DP version. (3840x2160-60Hz is available at DP 1.2 only. The best resolution is 3840x2160-30Hz at DP 1.1). Follow the instructions below to change 4K2K, 30Hz to 4K2K, 60Hz on your PC: In Windows, right click the desktop and enter the Screen Resolution. Go to Advanced Settings, and set the refresh rate to 60Hz from 30Hz.
- **Keylock:** To disable all function keys. Press the second button from the top over five seconds to cancel the key lock function.
- **Power Indicator:** Turns the power LED indicator on/off.
- **Information:** Shows the monitor information.
- **All Reset:** “Yes” allows you to restore the default settings.

8. 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: Brightness, 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	3840 x 2160
Pixel pitch	0.185 mm
Brightness (Typ.)	350 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	6 ms (Gray to gray)
SplendidPlus Video Enhancement	Yes
SplendidPlus selection	7 video preset modes
Auto adjustment	Yes
Color temperature selection	4 color temperatures
Digital input	HDMI v2.0, 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	+20° ~ -5°
Swivel	+60° ~ -60°
Height Adjustment	130 mm
Kensington lock	Yes
AC input voltage	AC: 100~240V
Power consumption	Power On: < 138.3 W*** (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)	734.4 mm x 615 mm x 240 mm (machine) 847 mm x 552 mm x 350 mm (package)
Weight (Esti.)	11.68 kg (Net); 15.74 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	HDMI cable, DisplayPort cable (optional), MHL cable (optional), DisplayPort cable (Mini-DP to DP), Power cord, USB cable, Quick start guide, Warranty card, Support CD, Cable tie, Color Calibration Testing Report
Regulation approvals	Energy Star, China Energy Level 1, EPEAT Gold (optional), UL/cUL, CB, CE, EuP, FCC (Class B), CCC, BSMI, CU, C-Tick, VCCI, TCO6.0, TUV-GS, TUV-Ergo, Ukraine, J-MOSS, RoHS, WEEE, PSE, PSB, KCC, eStandby, Windows 7, 8 & 8.1 WHQL, Mac Compliance**

*Specifications are subject to change without notice.

**Requires Mac OS X v10.x

*** Based on Energy Star 6.0 standard.

3.3 Troubleshooting (FAQ)

Problem	Possible Solution
Power LED is not ON	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Adjust the Contrast and Brightness settings via OSD.
Screen image is not centered or sized properly	<ul style="list-style-type: none"> • Adjust the H-Position or V-Position settings via OSD.
Screen image bounces or a wave pattern is present in the image	<ul style="list-style-type: none"> • 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)	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Adjust the Phase and Clock settings via OSD.
No sound or sound is low	<ul style="list-style-type: none"> • 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)
640x350	70(N)	31.47(P)	25.18
640x480	59.94(N)	31.47(N)	25.18
640x480	72.82(N)	37.87(N)	31.5
640x480	75.00(N)	37.5(N)	31.5
720x400	70.08(P)	31.47(N)	28.32
800x600	56.25(P)	35.16(P)	36.00
800x600	60.32(P)	37.88(P)	40.00
800x600	72.12(P)	48.08(P)	50.00
800x600	75.00(P)	46.86(P)	49.50
848x480	60(P)	31.0(P)	33.75
1024x768	60.00(N)	48.36(N)	65.00
1024x768	70.069(N)	56.476(N)	75.00
1024x768	75.00(N)	60.02(N)	78.75
1152x864	75.00(P/N)	67.5(P/N)	108.00
1280x720	60	44.77(N)	74.5
1280x768	60(N)	47.8(N)	79.5
1280x768	75(P)	60.3(P)	102.25
1280x800	60(P)	49.7(N)	84.5
1280x960	60.00(N)	60.00(P)	108.00
1280x1024	60.02(P)	63.98(P)	108.00
1280x1024	75.02(P)	79.98(P)	135.00
1366x768	59.79(P)	47.712(P)	85.50
1400x1050	60(P)	65.3(N)	121.75
1440x900	59.89(P)	55.94(N)	106.50
1600x1200	60.00(P)	75.00(P)	162.00
1680x1050	60.00(P)	65.29(N)	146.25
1920x1080	60.00(P)	67.5(P)	148.5
1920x1200 (Reduced Blanking)	59.95(N)	74.038(P)	154
1920x1200	59.885(P)	74.556(N)	193.25
2560x1080	59.978(N)	66.636(P)	181.25
2560x1440	59.951(N)	88.787(P)	241.50
3840x2160	24(P)	52.593(N)	266.75
3840x2160	25	54.786(N)	278.75
3840x2160	30(P)	65.956(N)	338.75
3840x2160	50(P)	111.174(N)	587
3840x2160 (Reduced Blanking)	60(N)	133.313(P)	533.25

When the monitor is operating in the video mode (ie, not displaying data) using the HDMI connector, the following high definition modes shall be supported in addition to standard definition video.

Resolution	Vertical Frequency (Hz)	Horizontal Frequency (KHz)
1920 × 1080p	24	27
	50	56.25
	59.94	67.43
	60	67.5
1920 × 1080i	50	28.13
	59.94	33.72
	60	33.75
1440x480P	59.94	31.47
	60	31.5
1440x576P	50	31.25
1280 × 720p	50	37.5
	59.94	44.95
	60	45
720 × 576p	50	31.25
720 × 480p	59.94	31.47
	60	31.5
640 × 480p(VGA)	59.94	31.47
	60	31.5
720(1440) × 576i	50	15.63
720(1440) × 480i	59.94	15.73
	60	15.75

* Modes not listed in the table may not be supported. For optimal resolution, we recommend that you choose a mode listed in the table above.