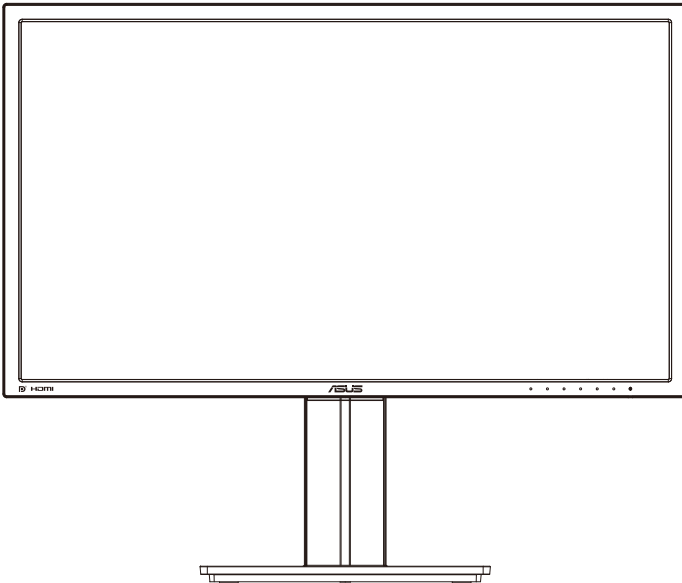


ASUS®

**PB27U Series
LCD Monitor**

User Guide



HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

Table of contents

- Notices iii
- Safety information iv
- Care & Cleaning v
- 1.1 Welcome! 1-1
- 1.2 Package contents..... 1-1
- 1.3 Assembling the monitor base..... 1-2
- 1.4 Connect cables..... 1-3
 - 1.4.1 Rear of the LCD monitor 1-3
- 1.5 Monitor introduction 1-4
 - 1.5.1 Using the Controls button 1-4
 - 1.5.2 QuickFit Function 1-6
- 2.1 Detaching the arm/stand (for VESA wall mount) 2-1
- 2.2 Adjusting the monitor..... 2-2
- 3.1 OSD (On-Screen Display) menu 3-1
 - 3.1.1 How to reconfigure..... 3-1
 - 3.1.2 OSD Function Introduction..... 3-2
- 3.2 Specifications..... 3-11
- 3.3 Troubleshooting (FAQ)..... 3-12
- 3.4 Supported Timing List..... 3-14

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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® 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.

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.
- The socket-outlet shall be installed near the equipment and shall be easily accessible
- If you encounter technical problems with the monitor, contact a qualified service technician or your retailer.
- Provide an earthing connection before the mains plug is connected to the mains. And, when disconnecting the earthing connection, be sure to disconnect after pulling out the mains plug from the mains.

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® 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:

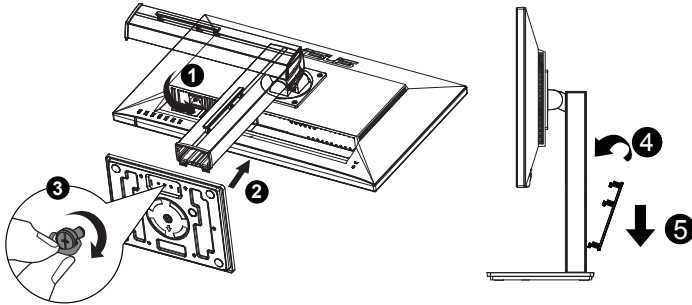
- ✓ LCD Monitor
- ✓ Monitor Base
- ✓ Quick Start Guide
- ✓ Warranty Card
- ✓ 1x Power Cord
- ✓ 1x Audio Cable
- ✓ 1x DisplayPort Cable
- ✓ 1x HDMI Cable



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

1.3 Assembling the monitor base

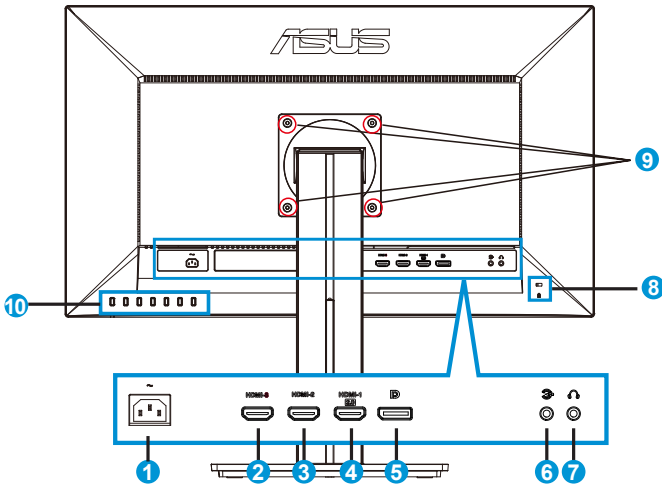
1. Attach the base to the arm. Beware to align the latch to the notch on the base.
2. The end of the arm will slightly protrude from the base. No need to push it in.
3. Screw the base to the arm tightly.



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

1.4 Connect cables

1.4.1 Rear of the LCD monitor

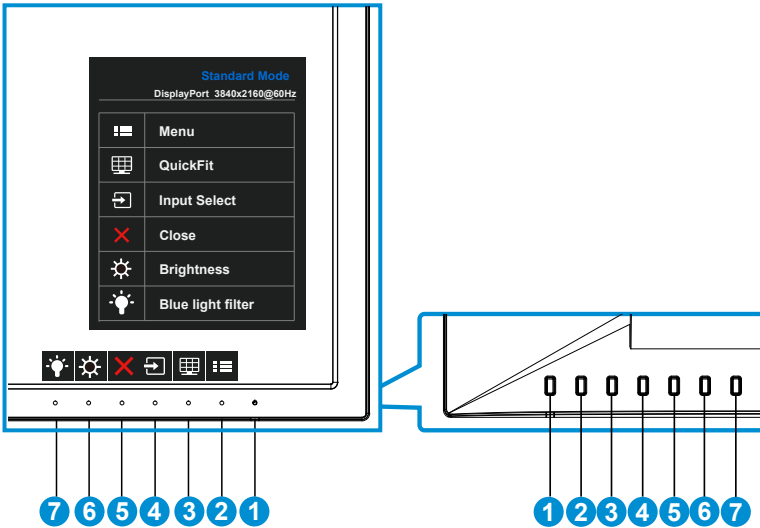


1. AC-IN port
2. HDMI-3 port
3. HDMI-2 port
4. HDMI-1 (V 2.0) port
5. DisplayPort
6. Audio - in Port
7. Earphone - out Port
8. Kensington Lock
9. Screw Holes for VESA Wall Mount
10. Control buttons

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. Power Button/Power Indicator:
 - Press this button to turn the monitor on/off.
 - The color definition of the power indicator is as the below table.

Status	Description
White	ON
Amber	Standby mode
OFF	OFF

2. MENU Button:
 - Press this button to enter the OSD menu.
3. QuickFit Button:
 - This is a hotkey to activate the **QuickFit** function designed for alignment.
 - The **QuickFit** function contains 6 pages of common grid patterns, paper sizes, and photo sizes. See page 1-6 for details.

4.  Input Select Button:
 - Use this hotkey to switch from HDMI-1(v 2.0), HDMI-2,HDMI-3, DisplayPort input signal.
5.  Close Button
 - Exit the OSD menu.
6.  Shortcut key1
 - This is a Shortcut key. The default setting is Brightness.
7.  Shortcut key2
 - This is a Shortcut key. The default setting is Blue light filter.

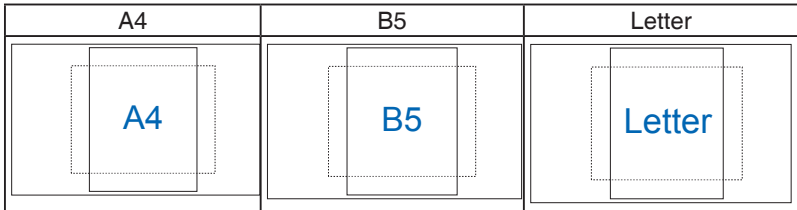
1.5.2 QuickFit Function

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

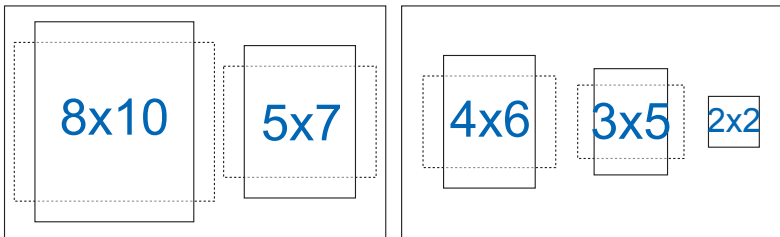
1. Grid pattern: Facilitates designers and users to organize content and layout on one page and achieve a consistent look and feel.



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



3. Photo size: 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)

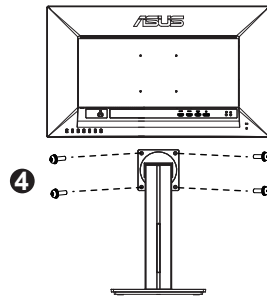
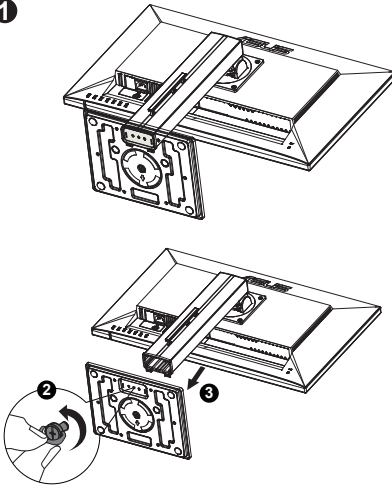
The detachable stand of this monitor is specially designed for VESA wall mount.

1. Disconnect power and signal cables. Carefully put the front of the monitor face down on a clean table.
2. Use your fingers to loosen the screw located at the bottom of the base, and remove the base from the stand.
3. Or you may directly use a screwdriver to remove the screws that secure the stand to the monitor, and 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 while removing the screws.

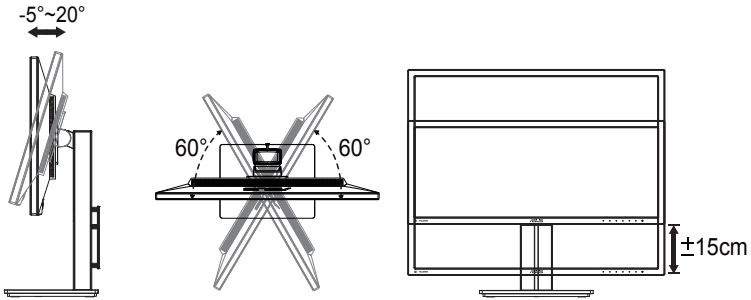
①



- 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).

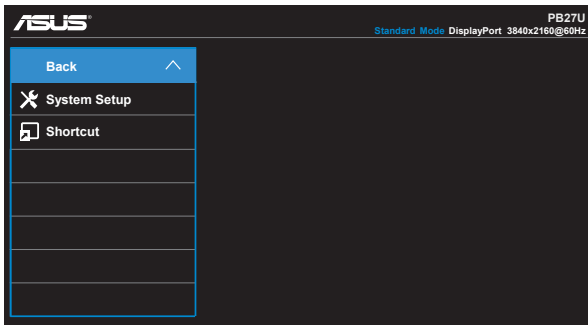
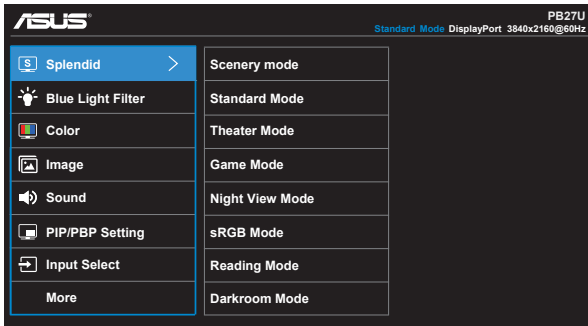
2.2 Adjusting the monitor

- 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 while changing its angle.
- You can adjust the monitor's angle from -5° to 20° .



3.1 OSD (On-Screen Display) menu

3.1.1 How to reconfigure

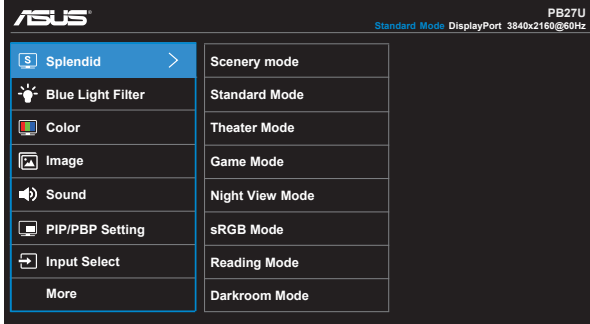


1. Press the MENU button to activate the OSD menu.
2. Press the ▼ and ▲ buttons to toggle between options in the Menu. As you move from one icon to another, the option name is highlighted.
3. Press the ✓ button to select the highlighted item on the menu.
4. Press the ▼ and ▲ buttons to select the desired parameter.
5. Press the ✓ button to enter the slide bar and then use the ▼ or ▲ buttons, according to the indicators on the menu, to make your changes.
6. Select the ↶ to return to previous menu or ✓ to accept and return to previous 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.



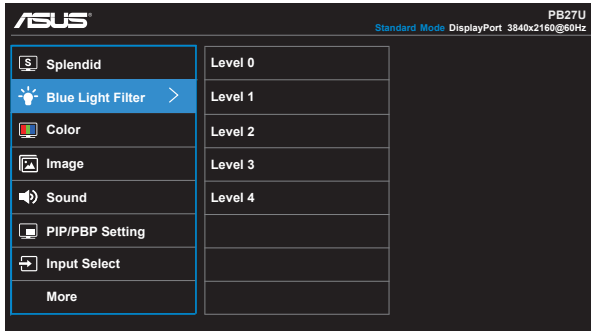
- **Scenery Mode:** This is the best choice for displaying scenery photo with SPLENDID™ Video Intelligence Technology.
- **Standard Mode:** This is the best choice for editing document with SPLENDID™ Video Intelligence Technology.
- **Theater Mode:** This is the best choice for watching movie with SPLENDID™ Video Intelligence Technology.
- **Game Mode:** This is the best choice for playing game 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.
- **sRGB Mode:** This is the best choice for viewing photos and graphics from PCs.
- **Reading Mode:** This is the best choice for reading book.
- **Darkroom Mode:** This is the best choice for a weak ambient light environment.



-
- 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, ASCR, contrast, and Color Temp functions are not user-configurable.
-

2. Blue Light Filter

Adjust the energy level of blue light emitted from LED backlight.



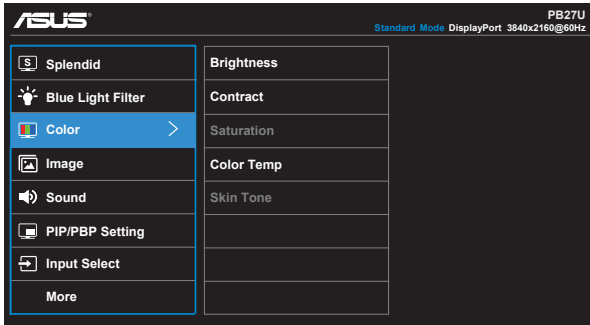
- **Level 0:** No change.
- **Level 1~4:** The higher the level, the more blue light will be reduced.



- When Blue Light Filter is activated, the default settings of Standard Mode will be automatically imported.
- Between Level 1 to Level 3, the Brightness function is user-configurable.
- Level 4 is optimized setting. It is compliance with TUV Low Blue Light Certification. The Brightness function is not user-configurable.

3. Color

Select the image color you like from this function.



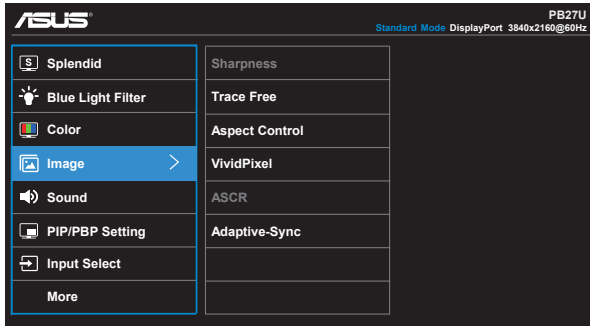
- **Brightness:** The adjustable range is from 0 to 100.
- **Contrast:** The adjustable range is from 0 to 100.
- **Saturation:** The adjustable range is from 0 to 100.
- **Color Temp.:** Contains three preset color modes (**Cool**, **Normal**, **Warm**) and **User Mode**.
- **Skin Tone:** Contains three color modes including **Reddish**, **Natural**, and **Yellowish**.



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

4. Image

You can adjust the image Sharpness, Trace Free, Aspect Control, VividPixel, ASCR, Adaptive-Sync from this main function.



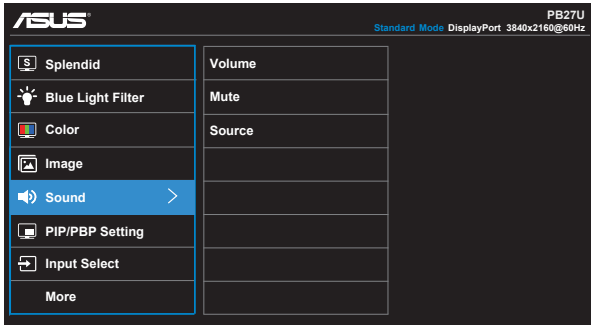
- **Sharpness:** Adjusts the picture sharpness. The adjustable range is from 0 to 100.
- **Trace Free:** Speeds up the response time by Over Drive technology. The adjustable range is from lower 0 to faster 100.
- **Aspect Control:** Adjust the aspect ratio to “Full”, “4:3”, “1:1” or “Overscan”.
- **VividPixel:** 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.
- **Adaptive-Sync:** It can allow a Adaptive-Sync supported* graphics source to dynamically adjust display refresh rate based on typical content frame rates for power efficient, virtually stutter free and low-latency display update.



-
- 4:3 is only available when input source is in 4:3 format. OverScan is only available for the HDMI input source.
 - Adaptive-Sync only support on DisplayPort.
-

5. Sound

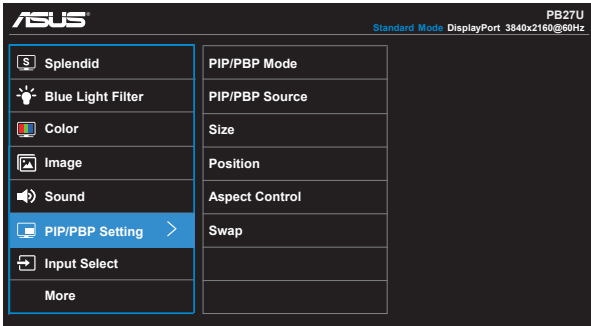
Adjust the sound settings to your preference.



- **Volume:** Adjusts the output volume level.
- **Mute:** Mute the output volume.
- **Source:** Adjusts audio source to “DisplayPort”, “HDMI” or “Line In”

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.



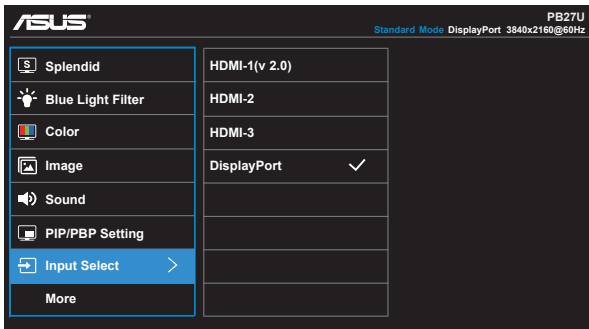
By activating this function, this monitor displays four pictures from four different video sources.

- **PIP/PBP Mode:** Selects PIP, PBP function or turn it off.
- **PIP/PBP Source:** Selects the video input source among, “HDMI-1(v 2.0), HDMI-2, HDMI-3, DisplayPort”.
- **Size:** Adjust the PIP size to “Small”, “Middle”, or “Large”.
- **Position:** Adjusts the position of PIP sub-window to “Right-Top”, “Left-Top”, “Right-Bottom” or “Left-Bottom”.
- **Aspect Control:** Adjusts the PIP aspect ratio and automatically adjust the PIP window size.
- **Swap:** Swaps the sources of the main- and sub-windows.

Sub-window	Main-window				
	HDMI-1(v 2.0)	HDMI-2	HDMI-3	DisplayPort	
HDMI-1(v 2.0)	NO	YES	YES	YES	YES
HDMI-2	YES	NO	YES	YES	YES
HDMI-3	YES	YES	NO	YES	YES
DisplayPort	YES	YES	YES	YES	NO

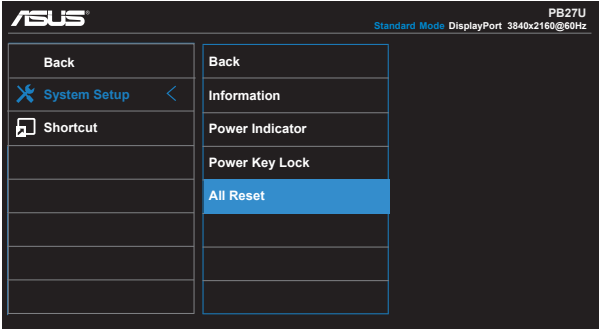
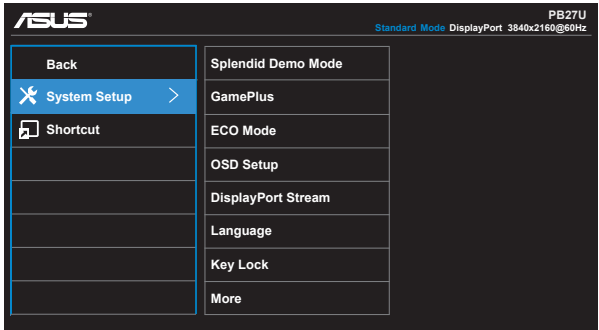
7. Input Select

Select the input source from **HDMI-1(v 2.0)**, **HDMI-2**, **HDMI-3**, **DisplayPort** input signal.



8. System Setup

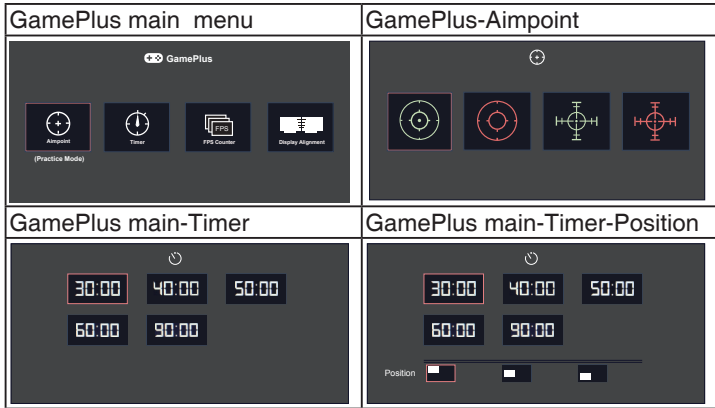
Adjusts the system configuration.



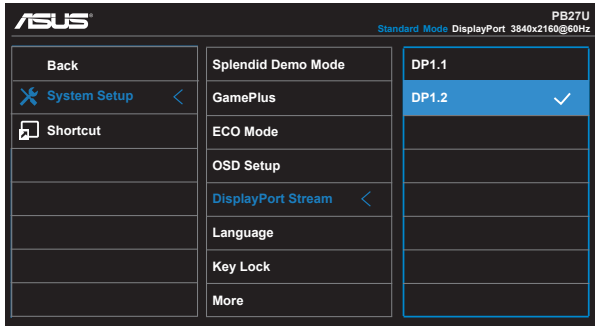
- **Splendid Demo Mode:** Activate the demo mode for the Splendid function.
- **GamePlus:** The GamePlus Function provides a toolkit and creates a better gaming environment for users when playing different types of games. Particularly, Aimpoint function is specially designed for new gamers or beginners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

To active GamePlus:

- Select **ON** to enter the GamePlus main menu.
- Press ◀ and ▶ to select between Chrosshair, Timer, FPS Counter function and Display Alignment function.
- Press ✓ to confirm the function you choose. Press ↶ to go back. Press ✗ to go off, and exit.



- **ECO Mode:** Activate the ecology mode for power saving.
- **OSD Setup:** Adjusts the **OSD Timeout**, **DDC/CI**, and **Transparency** of the OSD screen.
- **DisplayPort Stream:** 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.

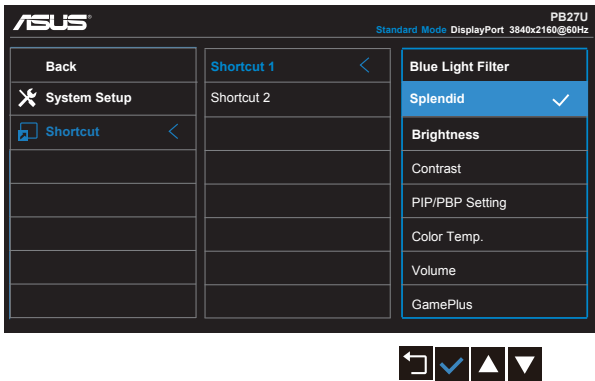


- **Language:** Select OSD language. The selections are: **English, French, German, Spanish, Italian, Dutch, Russian, Traditional Chinese, Simplified Chinese, Japanese, Persian, Thai, Indonesian, Poland, Turkey, Portugal, Czech, Croatia, Hungary, Romania, and Korean.**
- **Key Lock:** Disable all key functions. Pressing the second button on the right for more than five seconds to disable key lock function.

- **More:** Return the next page of System Setting.
- **Back:** Return the previous page of System Setting.
- **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.

9. Shortcut

Selecting this option allows you to set two shortcut keys.



- **Shortcut 1:** User can select from “Blue lihgt filter”, “Splendid”, “Brightness”, “Contrast”, “PIP/PBP Setting”, “Color Temp.”, “Volume”, “GamePlus” and set as shortcut key. The default setting is Brightness.
- **Shortcut 2:** User can select from “Blue lihgt filter”, “Splendid”, “Brightness”, “Contrast”, “PIP/PBP Setting”, “Color Temp.”, “Volume”, “GamePlus” and set as shortcut key. The default setting is Blue Light Filter.

3.2 Specifications

Model	PB27UQ
Panel Size	27" W (68.4 cm)
Max. Resolution	3840 x 2160
Brightness (Typ.)	300cd/m ²
Dynamic Contrast Ratio (Typ.)	≥ 100,000,000:1
Viewing Angle (CR ≤ 10)	178°(V); 178°(H)
Display Colors	1073.7 M
Response Time (Typ.)	≤ 5 ms (Gray to Gray)
DisplayPort input	Yes
HDMI input	Yes
PC Audio input	Yes
Power ON Consumption	Power on < 60 W*
Speaker	2W x 2
Earphone	Yes
Power saving mode	< 0.5 W
Power off mode	< 0.5 W
Tilt	-5° ~ +20°
Swivel(angle)	+60° ~ -60°
Pivot(angle/direction)	90°(clockwise)
VESA Wall Mounting	Yes (100mm x 100mm)
Phys. Dimension (WxHxD)	624.96 x 557.76 x 220.06 mm
Box Dimension (WxHxD)	753 x 452 x 224 mm
Net Weight (Esti.)	7.7 kg
Gross Weight (Esti.)	10 kg
Voltage Rating	AC 100~240V(Built-in)
Note	* 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 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	<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 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 Reset via OSD. • Adjust the R/G/B color settings or select the Color Temperature via OSD.
No sound or sound is low	<ul style="list-style-type: none"> • 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. • Few players will not send the necessary information after their color input format are changed. This may lead to the abnormal color display. At this time, turn on/off the power again to correct this anomaly.

<p>Cannot select 3840x2160@60Hz for HDMI</p>	<ul style="list-style-type: none"> • Check the HDMI version of your graphics card. (a) If it is HDMI 1.4, 3840x2160@60Hz output is not available to your card. Change to a HDMI 2.0 card. (b) If it is HDMI 2.0, connect to HDMI-1 (V 2.0), i.e. the HDMI port next to DP. <p>Note: The HDMI-1 (V 2.0) input port supports up to 3840x2160 @60Hz HDMI-2, HDMI-3 input ports support up to 3840x2160@30Hz</p>
<p>Cannot select 3840x2160@60Hz for DP</p>	<ul style="list-style-type: none"> • Check the DP version of your graphics card. (a) If it is DP 1.1, 3840x2160@60Hz output is not available to your card. Change to a DP 1.2 card. (b) If it is DP 1.2, set DisplayPort Stream to DP 1.2.
<p>PC is on, but DP cannot display anything</p>	<ul style="list-style-type: none"> • Check if your PC is in hibernation. Press any key on the keyboard or click the mouse • Remove and insert the DP signal cable on the PC and display to see if the cable clicks. • Press the power button on the display to see if it is on. • If the card is DP 1.1, press the Source button and select Switch to DP 1.1.

3.4 Supported Timing List

Timing List	HDMI1.4	HDMI2.0	Display Port 1.2
640x350@70	V	V	V
640x480@60	V	V	V
640x480@67	V	V	X
640x480@72	V	V	X
640x480@75	V	V	X
720x400@70	V	V	V
800x600@56	V	V	V
800x600@60	V	V	V
800x600@72	V	V	X
800x600@75	V	V	X
832x624@75	V	V	V
848x480@60	X	X	X
1024x768@60	V	V	V
1024x768@70	V	V	X
1024x768@75	V	V	X
1152x864@75	V	V	X
1280x720@50	X	X	X
1280x720@60	V	V	V
1280x800@60	V	V	V
1280x960@60	V	V	V
1280x1024@60	V	V	V
1280x1024@75	V	V	X
1440x900@60	V	V	V
1680x1050@60	V	V	V
1920x1080@60	V	V	V
2560x1440@60	V	V	V
2560x1600@60	V	V	V
3840x2160@30	V	V	V
3840x2160@60	X	V	V

* Some graphics cards only support up to 1920 x 1200 resolution content transmission via HDMI. Please check with your local distributor or retailer on the hardware limitations of your laptop or desktop.

Video Timing			
Timing List	HDMI1.4	HDMI2.0	Display Port 1.2
720x480P@59.94	V	V	V
720x480P@60	V	V	V
720x576P@50	V	V	V
1280x720P@50	V	V	V
1280x720P@59.94	V	V	V
1280x720P@60	V	V	V
1440x480P@59.94	V	V	V
1440x480P@60	V	V	V
1440x576P@50	V	V	V
1920x1080i@50	V	V	V
1920x1080i@60	V	V	V
1920x1080P@23.97	V	V	X
1920x1080P@24	V	V	X
1920x1080P@25	V	V	X
1920x1080P@29.97	V	V	X
1920x1080P@30	V	V	X
1920x1080P@50	V	V	V
1920x1080P@59.94	V	V	V
1920x1080P@60	V	V	V
3840x2160P@25	V	V	X
3840x2160P@29.97	V	V	X
3840x2160@30	V	V	X
3840x2160@50	X	V	X
3840x2160@59.94	X	V	X
3840x2160@60	X	V	X

* 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.