



ZenScreen Go MB16AHP

Portable USB Monitor

User Guide

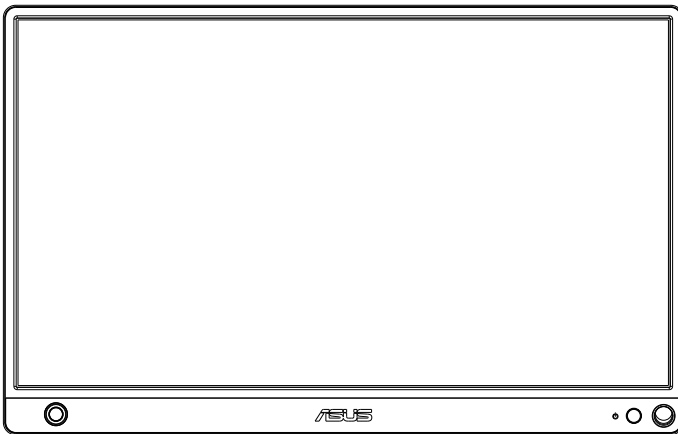


Table of contents

Notices.....	iii
Safety information	iv
Care & cleaning.....	v
Takeback services	vi
Caution	vi
1.1 Welcome!	1-1
1.2 Package contents.....	1-1
1.3 Monitor introduction	1-2
1.3.1 Front View and Charging Instructions	1-2
1.3.2 QuickFit Function	1-4
2.1 Monitor standing positions	2-1
2.2 Connect the USB monitor with system.....	2-2
2.3 Announcements	2-3
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.....	3-10
3.3 Troubleshooting (FAQ).....	3-11
3.4 Supported Timing List.....	3-13

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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 the 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.

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 this Portable USB Monitor, carefully read all the documentation that came with the package.
- To prevent fire or shock hazard, never expose this Portable USB Monitor to rain or moisture.
- Never try to open this Portable USB Monitor cabinet.
- Before using this Portable USB Monitor, make sure all cables are correctly connected and the power cables are not damaged. If you detect any damage, contact your dealer immediately.
- Avoid dust, humidity, and temperature extremes. Do not place this Portable USB Monitor in any area where it may become wet. Place this Portable USB Monitor on a stable surface.
- Never push objects or spill liquid of any kind into the slots on this Portable USB Monitor cabinet.
- If you encounter technical problems with this Portable USB Monitor, contact a qualified service technician or your retailer.
- This Portable USB Monitor is powered by USB port which complies with LPS and SELV circuit according to IEC60950-1:2005.
- DO NOT dispose of the product in fire
- DO NOT use monitor near heating equipment or in places where there is likelihood of high temperature
- Keep your monitor away from sharp objects
- DO NOT place objects on top of your monitor

Care & cleaning

- Cleaning. Turn your monitor off and unplug the cable. 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:

- 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.

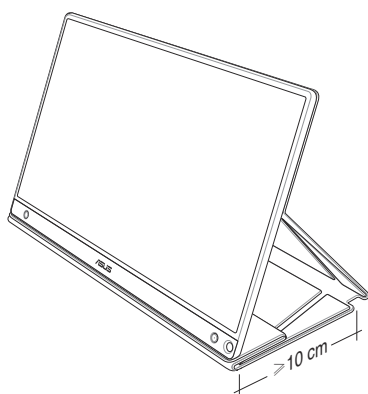
Please go to <http://csr.asus.com/english/Takeback.htm> for detail recycling information in different region.

Caution

We suggest to use the attached pen or any pen or stick that can fit in the hole at the corner as a simple stand for the monitor.

Please reserve at least 10cm/4 inch of the pen at the back of the monitor to stabilize.

Please be noted the pen attached has no Touch function.



1.1 Welcome!

Thank you for purchasing the ASUS® Portable USB Monitor!

The latest ASUS Portable USB Monitor provides great portability and simplicity to your daily life, enhancing both of your viewing experience and style.

1.2 Package contents

Check your package for the following items:

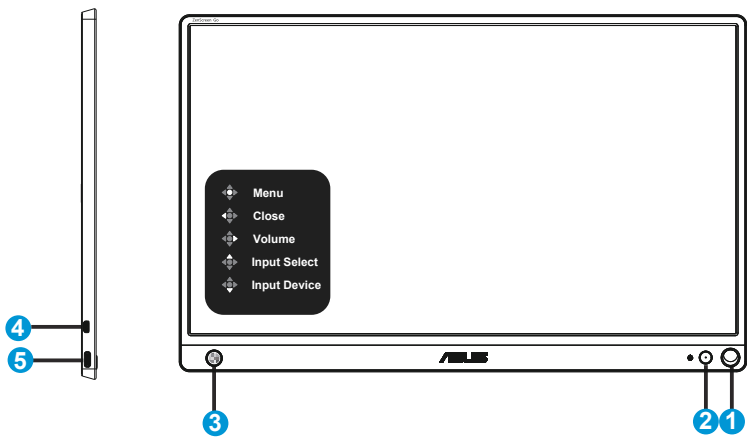
- ✓ Portable USB Monitor
- ✓ Quick Start Guide
- ✓ Warranty Card
- ✓ USB Type-C Cable
- ✓ Smart Cover
- ✓ USB Type-C to A Adapter
- ✓ Micro HDMI to HDMI cable
- ✓ Pen
- ✓ Power Adapter



-
- If any of the above items is damaged or missing, contact your retailer immediately.
 - Inbox pen is not included in the warranty.
-

1.3 Monitor introduction

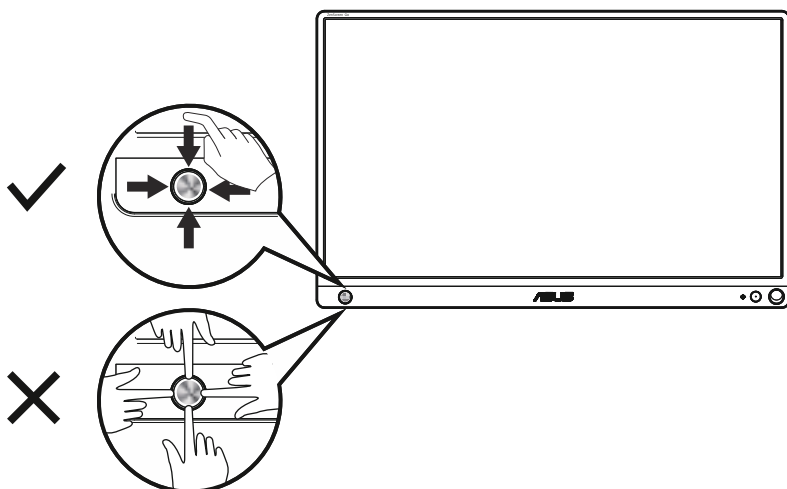
1.3.1 Front View and Charging Instructions



- 1. Pen hole
 - Use the attached pen to insert into the hole, the monitor can stand up directly without the smart cover.
- 2. Power button/Power LED
 - Press this button to turn the monitor on/off when connected to a valid source.
 - The color definition of the power indicator is as the below table.

Status	Description
Blue	ON/Standby mode
Dark	OFF
Red	Charging Mode
Green	Finished charging

- 3. 5 way key
 - Press the Central button to enter OSD when in connection to a valid source.
 - Long pressing the Central button allows you to have a quick check on battery % even the device is OFF.



4. Micro-HDMI port

- Connect your computer with Micro-HDMI cable.

5. USB Type-C port

- Used to connect to a valid source such as Notebook/PC/Mobile phones; signal input supports maximum to resolution 1920 x 1080 @60Hz.
- Used to do battery charging; up to 9V@2A 18W power supply by inbox QC3.0 adapter.



IMPORTANT:

- Charge the monitor for 4 hours before using it for the first time
- Use only bundled power adapter and USB cable to charge your monitor. Using different power adapter and cable might bring potential damage to your device.



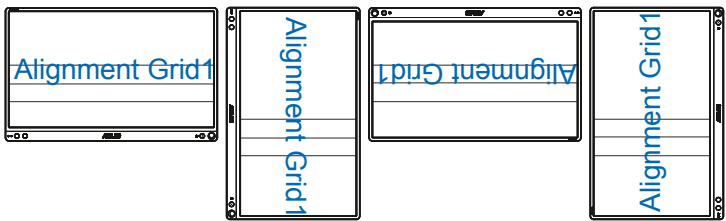
WARNING: The adapter may become warm to hot while in use. DO NOT cover the adapter and keep it away from your body while it is connected to a power source. If your device become unusual hot, disconnect the USB cable from your device and send the device including the power adapter and USB cable to an ASUS qualified service personnel

1.3.2 QuickFit Function

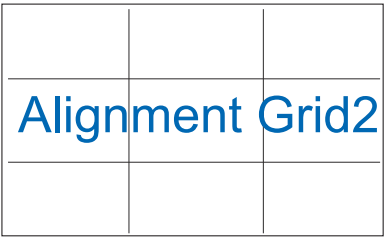
The QuickFit function contains two patterns: (1) Grid (2) Photo size.

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

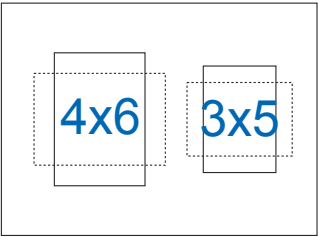
Alignment grid 1 will be rotated automatically if auto rotation is enabled.



- Auto rotation function is only working under Windows OS by installing DisplayWidget software.

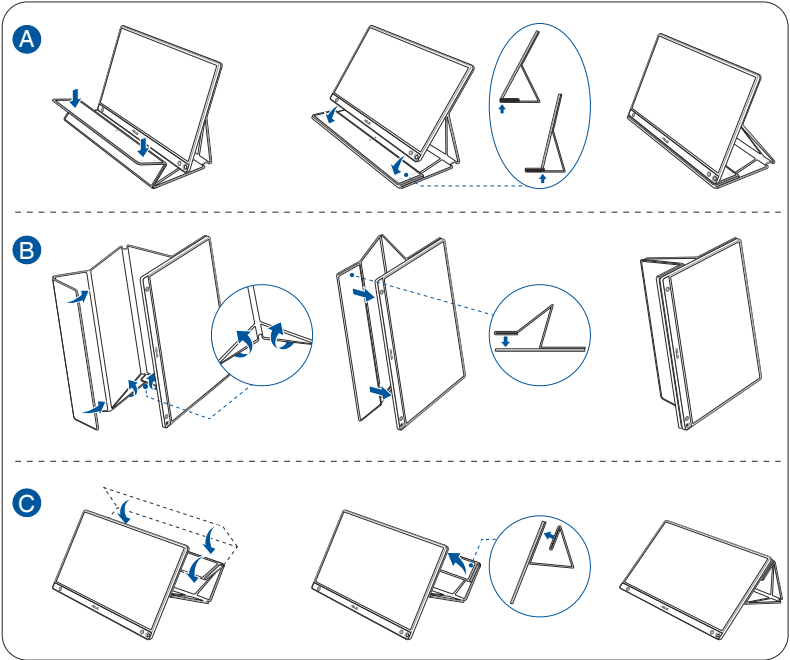


2. Photo size: Provides photographers and other users to accurately view and edit their photos in real size on the screen.



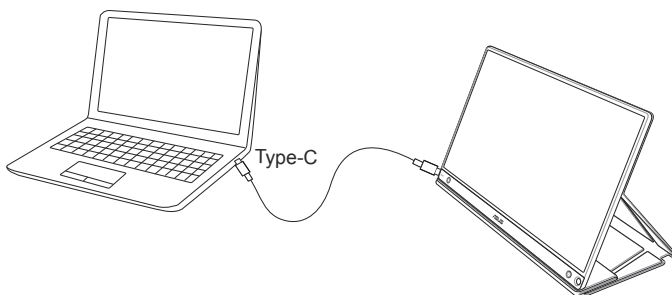
2.1 Monitor standing positions

You can stand up the monitor by several positions with the smart cover.



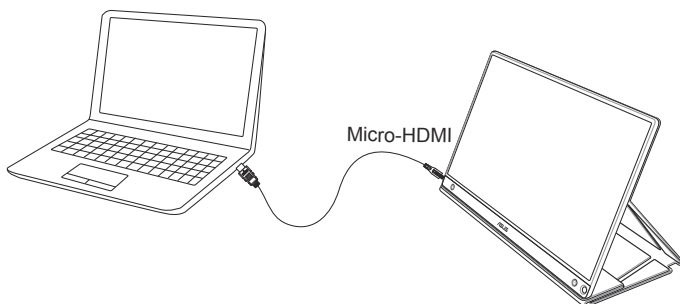
2.2 Connect the USB monitor with system

A



or

B



2.3 Announcements

As this product and attached smart cover includes magnet in the structure, there could be potential risk to cause the damage of computer hard disc and objects that are sensitive to magnet.

Please ensure not to stack the product with the computer when computer is in use (power on or standby mode) otherwise the hard drive could possibly be influenced by the result of permanent data missing or the computer display could be switched off due to computer auto protection mechanism. When place this product together with computer in the bag, must have the computer power off to avoid possible hard drive damage problem. (Check Picture A)

The battery capacity will vary depending on the environment temperature, humidity, and monitor usage

The battery used in this device may present a risk of fire or chemical burn if removed or disassembled

Risk of explosion if the battery is placed by an incorrect type

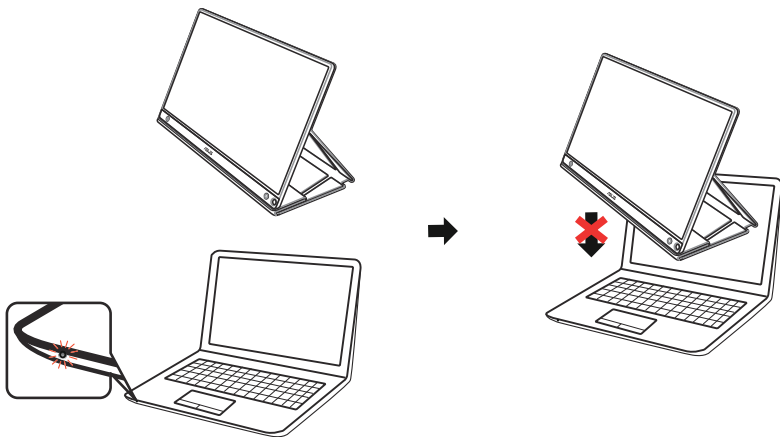
Never attempt to short-circuit your monitor battery

Never attempt to disassemble and reassemble the monitor battery

Discontinue usage if leakage is found

The battery and its components must be recycled or disposed of properly

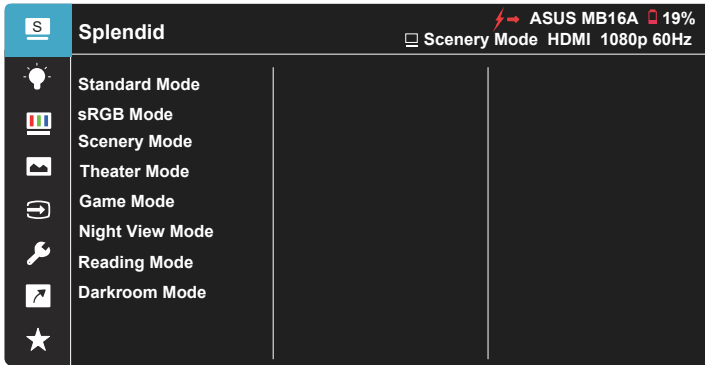
Keep the battery and other small components away from children



Picture A




3.1 OSD (On-Screen Display) menu

3.1.1 How to reconfigure



1. Press the Central of 5-way button to display the OSD menu.
2. Move the key up and down to switch the options in the menu. When you move from one icon to another, the option name is highlighted.
3. To select a highlighted item from the menu, move the key towards right or press the central key.
4. Move the key up and down to select the desired parameters.
5. Move the key towards right or press the central button to enter the slide bar, and then use the Up or Down keys (depending on the indicators in the menu) to make changes.
6. Move the key towards left to return to the previous menu.

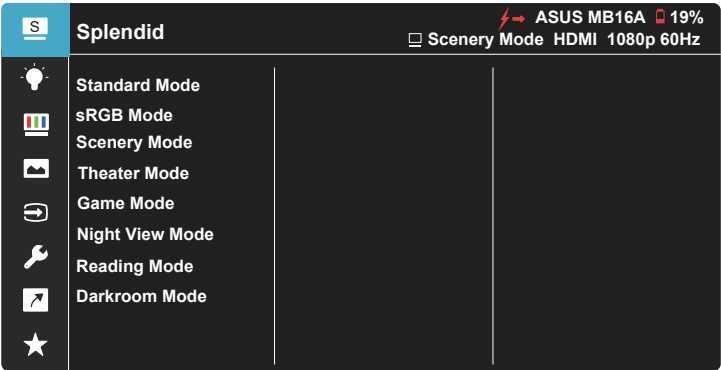


-  : Get power from source when this icon is shown
-  : Battery power
-  : Battery is being charged

3.1.2 OSD Function Introduction

1. Splendid

This function contains eight sub-functions that you can select for your preference.



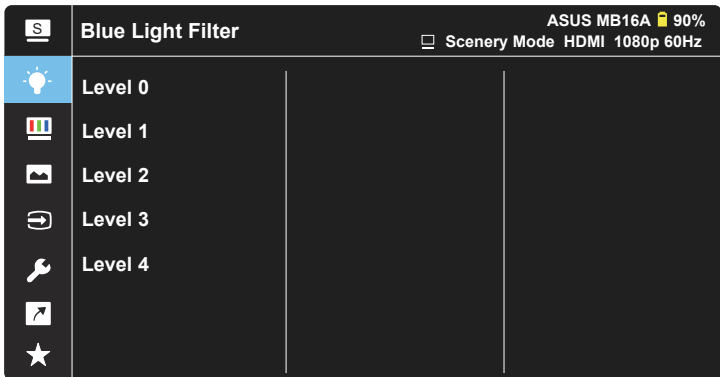
- **Standard Mode:** This is the best choice for document editing with SPLENDID™ Video Intelligence Technology.
- **sRGB Mode:** This is the best choice for viewing photos and graphics from PCs.
- **Scenery Mode:** This is the best choice for scenery photo displaying with SPLENDID™ Video Intelligence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



- In the Standard Mode, the Saturation, SkinTone, Sharpness, and ASCR functions are not user-configurable.
- In the sRGB, the Saturation, Color Temp., SkinTone, Sharpness, Brightness, Contrast and ASCR functions are not user-configurable.
- In the Reading Mode, the Saturation, SkinTone, Sharpness, ASCR, contrast, and Color Temp functions are not user-configurable.

2. 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.

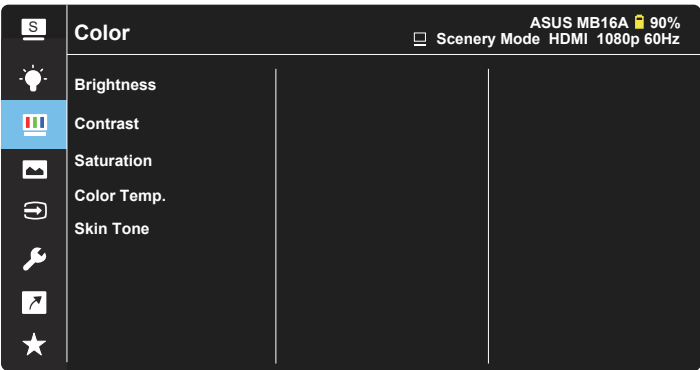


Please refer to the following to alleviate eye strains:

- Users should take some time away from the display if working for long hours. It is advised to take short breaks (at least 5 mins) after around 1 hour of continuous working at the computer. Taking short and frequent breaks is more effective than a single longer break.
- To minimize eye strain and dryness in your eyes, users should rest the eye periodically by focusing on objects that are far away.
- Eye exercises can help to reduce eye strain. Repeat these exercises often. If eye strain continues please consult a physician. Eye exercises: (1) Repeating look up and down (2) Slowly roll your eyes (3) Move your eyes diagonal.
- High energy blue light may lead to eye strain and AMD (Age-Related Macular Degeneration). Blue light Filter to reduce 70% (max.) harmful blue light to avoiding CVS (Computer Vision Syndrome).

3. Color

Select the image color you like from this function.



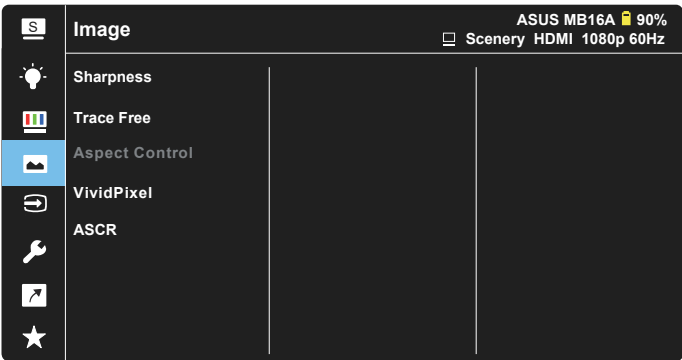
- **Brightness:** The adjusting range is from 0 to 100.
- **Contrast:** The adjusting range is from 0 to 100.
- **Saturation:** The adjusting range is from 0 to 100.
- **Color Temp.:** Contains three preset color modes (**Cool**, **Normal**, **Warm**) and **User Mode**.
- **Skin Tone:** Contains three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



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

4. Image

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



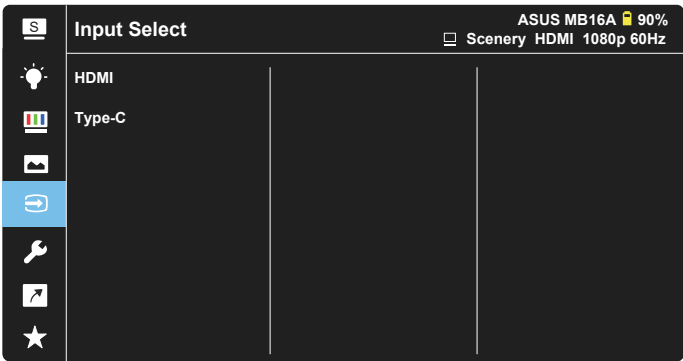
- **Sharpness:** Adjusts the picture sharpness. The adjusting range is from 0 to 100.
- **Trace Free:** Speeds up the response time by Over Drive technology. The adjusting range is from lower 0 to faster 100.
- **Aspect Control:** Adjusts the aspect ratio to “Full”, “4:3”.
- **VividPixel:** ASUS Exclusive 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.



- 4:3 is only available when input resolution H:V < 16:9.

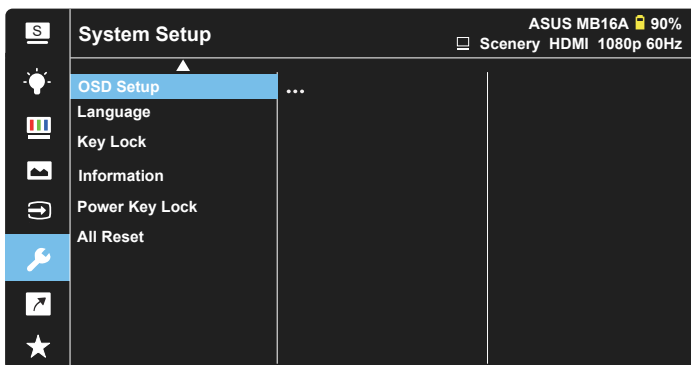
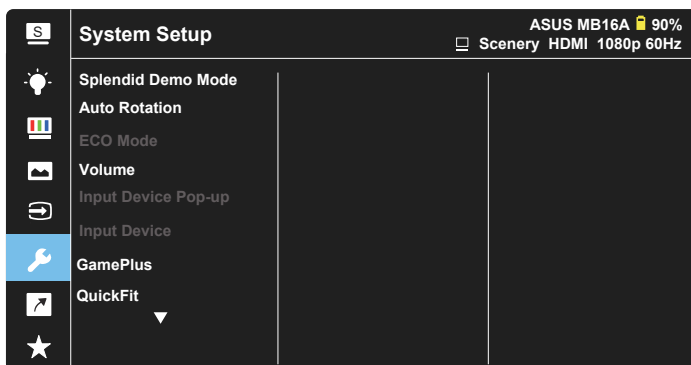
5. Input Select

Select the input source from HDMI or Type-C input signal.







6. System Setup

Adjusts the system configuration.



- **Splendid Demo Mode:** Activate the demo mode for the Splendid function.
- **Auto Rotation:** To enable/disable rotate image automatically. Please be noted that Auto rotation function is only working under **Windows OS** by installing **DisplayWidget** software.
- **ECO Mode:** Activate this ecology mode for power saving. When the battery power is under 20%, ZenScreen system will start to communicate with NB/PC to do brightness adjustment to make the overall using time longer. (This mode is designed for NB/PC ONLY due to most of mobile phones don't provide power to other sources).
 - * Please select "Charging from NB/PC" before turning on ECO mode.
 - * ECO Mode is only available under Type C input, it's disabled under HDMI input.
- **Volume:** Adjusts the output volume level.

- **Input Device Pop-up** : To enable/disable Input Device & Power Supply from PC pop-up questions WHENEVER in connection.
- **Input Device** :
Select "Phone" if connect to mobile phone (Power supply function is not provided under "Phone" due to common mobile devices cannot provide enough power output). Select "NB/PC" if connect to NB/PC and then select "Charging From NB/PC" with charging function. This function allows you to sustain the working time for longer. In PC sub-function, you can disable power supply function by selecting "No Charging From NB/PC"
 * No Charging here means getting power under 100mA, and this does not affect the battery life/usage of host devices connected.
 * ZenScreen battery could still be consumed after choosing Charging From NB/PC or turning on ECO mode due to some of NB/PC have limited power output.
- **GamePlus**: The GamePlus Function provides a toolkit and creates a better gaming environment for users when playing different types of games. Particularly, Crosshair function is specially designed for new gamers or beginners interested in First Person Shooter (FPS) games. To active GamePlus:
 • Press **GamePlus** Button to enter the GamePlus main menu.
 • Activate Crosshair, Timer, FPS Counter or Display Alignment function.
 • Move the  button up/down to select and press  to confirm the function needed. Press  to go off, and exit.
 • Crosshair/Timer/FPS Counter is movable by moving  5-way key.

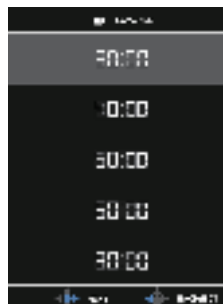
GamePlus main menu



GamePlus-Crosshair



GamePlus-Timer



- **QuickFit**: See page 1-4 for details.
- **OSD Setup**: Adjusts the **OSD Timeout**, **DDC/CI**, and **Transparency** of the OSD screen.

- **Language:** Select OSD language. The selections are: **English, French, German, Spanish, Italian, Dutch, Russian, Poland, Czech, Croatia, Hungary, Romania, Portugal, Turkey, Simplified Chinese, Traditional Chinese, Japanese, Korean, Persian, Thai and Indonesian.**
- **Key Lock:** Pushing the 5-way button to the left for more than 5 seconds to disable key locking.
- **Information:** Displays the monitor information.
- **Power Key Lock:** To disable / enable power key.
- **All Reset:** Selects "**Yes**" to revert all settings to the factory default mode.

7. **Shortcut**

Selecting this option allows you to set shortcut key.



- **Shortcut** : User can select from “Blue Light Filter” “Splendid”, “Brightness”, “Contrast”, “Auto Rotation”, “ECO Mode”, “Input Select”, “Volume”, “Input Device” and set as shortcut key.

8. **MyFavorite**

Load/Save all settings on the monitor.




3.2 Specifications

Model	MB16AHP
Panel Size	15.6" (16:9, 39.62cm) wide screen
Resolution	1920 x 1080
Brightness (Typ.)	250 nites
Contrast (Typ.)	700:1
Display Colors	262 K
Digital Input	DisplayPort™ Alt Mode for USB Type-C™ HDMI via Micro HDMI
Colors	Dark Gray
Power Consumption	≤ 9 W
Operating Temp.	5°C ~ 35°C
Operating Humidity	20-90% RH
Speaker	1W x 2
Phys. Dimension (WxHxD)	359.66 x 227.39 x 9 mm
Box Dimension (WxHxD)	485 x 305 x 76 mm
Net Weight (Esti.)	0.86 kg
Gross Weight (Esti.)	3.1 kg
Regulation Approvals	UL/cUL, CB, CE, CCC, KCC, FCC, BSMI, EAC(CU), RCM, VCCI, J-Moss, UkrSEPRO, RoHS, WEEE, Windows 7 & 8.1 & 10 WHQL, Blue light filter, Flicker free, BIS
Voltage Rating	5 - 9V ---, 2.0A QC3.0 charging spec is supported
Adapter	ASUS/AD2068M20 100-240V~50/60Hz 0.5A 5V ---, 2A(Normal model) OR 9V ---, 2A(Quick charge model)

*Specifications are subject to change without notice.

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 Type-C and HDMI port connected to source of signal.• Check if the signal source is ON.• Connect to the ASUS adapter and check if the battery is low; if so, charge the battery before using it.
The power LED lights blue 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 USB Type-C and HDMI cable is properly connected between the Portable USB 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 Brightness settings via the button.
Screen image bounces or a wave pattern is present in the image	<ul style="list-style-type: none">• Make sure the USB Type-C and HDMI cable is properly connected between the Portable USB 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 USB Type-C and HDMI cable and make sure that none of the pins are bent.
The monitor automatically turns off	<ul style="list-style-type: none">• The monitor automatically turns off when the battery power is zero. Please connect to the ASUS adapter and check if the battery is low; if so, charge the battery before using it.• Please check if the source of signal went into sleep mode. The monitor automatically turns off after the signal source slept for more than 15 seconds to save power consumption.
The signal source is shown in power supply mode	<ul style="list-style-type: none">• The monitor will get a small amount of electricity from the signal source. This is normal.

When there's no signal or power charging input, but LED light keep showing in green	<ul style="list-style-type: none">• Please press both on/off button and menu key together for few seconds to allow the system to reset
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3.4 Supported Timing List

PC Supported Primary Timing

Resolution	Refresh Rate	Horizontal Frequency
640x480	60Hz	31.469kHz
800x600	60Hz	37.879kHz
1024x768	60Hz	48.363kHz
1280x960	60Hz	60kHz
1280x1024	60Hz	63.981kHz
1440x900	60Hz	55.935kHz
1680x1050	60Hz	65.29kHz
1920x1080	60Hz	67.5kHz

VESA Modes, User Available Timing

Resolution	Refresh Rate	Horizontal Frequency
848x480	60Hz	31.02kHz
1280x720	60Hz	44.772kHz
1280x800	60Hz	49.702kHz
1920x1080	60Hz	66.587kHz