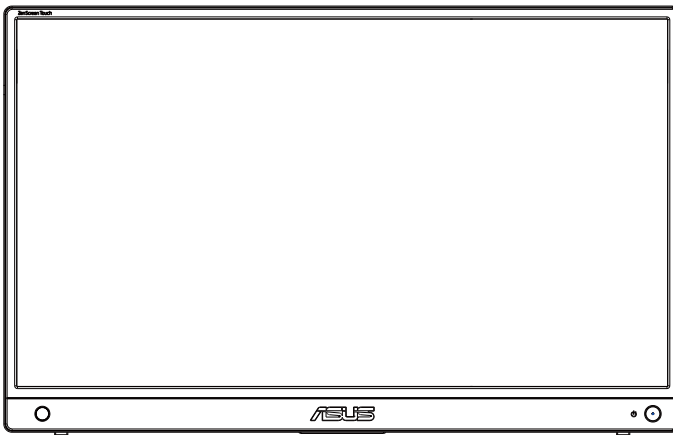




MB16AMTR

Portable USB Touch Monitor

User Guide



HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

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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.

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.



Declaration of Conformity

This device complies with the requirements set out in the Council Directive on the Approximation of the Laws of the Member States relating to Electromagnetic Compatibility (2014/30/EU), Low-voltage Directive (2014/35/EU), ErP Directive (2009/125/EC) and RoHS directive (2011/65/EU). This product has been tested and found to comply with the harmonized standards for Information Technology Equipment, these harmonized standards published under Directives of Official Journal of the European Union.

WEEE Symbol Statement

This symbol on the product or on its packaging indicates that this product must not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or the shop where you purchased the product.



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 IEC 62368-1.

WARNING

Restriction on Hazardous Substances statement (India) This product complies with the “India E-Waste (Management) Rules, 2016” and prohibits use of Lead, Mercury, Hexavalent Chromium, polybrominated biphenyls(PBBs) and polybrominated diphenyl ethers(PBDEs) in concentration exceeding 0.1% by weight in homogenous materials and 0.01% by weight in homogenous materials for cadmium, except of exemptions listed in Schedule 2 of the Rule.

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	Technical Support		Telephone +49-1805-010923 Support Fax +49-2102-959911 Online Support http://support.asus.com/		
■ Technical Support	Telephone		+86-21-38429911		

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.
- Please use [clean water] only as the cleaning method.

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.

M.10 Instructions to prevent reasonably foreseeable misuse

A BATTERY incorporated in the equipment and a BATTERY together with its associated components (including CELLS and electric power generators) shall be so constructed that an electric shock or fire SAFEGUARD failure (for example, flammable chemical leakage causing fire or insulation damage) is unlikely, taking all reasonably foreseeable conditions into account. If applicable, this shall include extreme conditions as specified by the manufacturer, such as:

- High or low extreme temperatures that a BATTERY can be subjected to during use, storage or transportation; and low air pressure at high altitude.

Where providing safety devices or design in a BATTERY or equipment is not reasonably practical considering the functional nature of the BATTERY or equipment containing a BATTERY, INSTRUCTIONAL SAFEGUARDS in accordance with Clause F.5 shall be provided to protect the BATTERY from extreme conditions or user's abuse. Examples that shall be considered include:

- Replacement of a BATTERY with an incorrect type that can defeat a SAFEGUARD (for example, in the case of some lithium BATTERY types);
- Disposal of a BATTERY into fire or a hot oven, or mechanically crushing or cutting of a BATTERY, that can result in an EXPLOSION;
- Leaving a BATTERY in an extremely high temperature surrounding environment that can result in an EXPLOSION or the leakage of flammable liquid or gas; and a BATTERY subjected to extremely low air pressure that may result in an explosion or the leakage of flammable liquid or gas.

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.

3. Protect your eyes with ASUS EYE CARE Monitors

The latest ASUS monitors feature exclusive Blue Light Filter and Flicker free technologies to keep your eyes healthy in today's digital world.

Refer to

https://www.asus.com/Microsite/display/eye_care_technology/

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.

Product information for EU energy label



1.1 Welcome!

Thank you for purchasing the ASUS Portable USB Touch Monitor!

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

1.2 Package contents

Check your package for the following items:

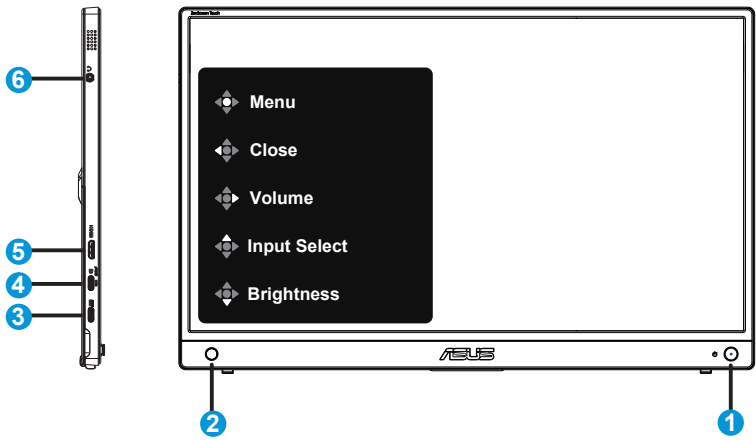
- ✓ Portable USB Monitor
- ✓ Quick Start Guide
- ✓ Warranty Card
- ✓ USB Type-C Cable
- ✓ USB Type-C to A adapter (Optional)
- ✓ USB Type-C to A cable (Optional)
- ✓ Protective Sleeve
- ✓ Mini HDMI to HDMI cable
- ✓ PD 30W Adapter



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

1.3 Monitor introduction

1.3.1 Front View and Charging Instructions



- 1. 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	Power on mode
Red	Charging Mode
Green	Finished charging
Dark	OFF
Orange	Standby mode

- 2. 5 way key
 - Turns on the button functions menu.Enacts the selected OSD menu item.
 - Increases/Decreases values or moves your selection up/down/left/right.
- 3. USB Type-C port()
 - Used to do battery charging; up to 12V@2.5A 30W power supply by inbox PD adapter.

4. USB Type-C port (Type-C/USB)

- Used to connect to a valid source such as Notebook/PC/Mobile phone; signal input supports maximum to resolution 1920 x 1080 @60Hz.
- Type-C output (up to 10W power) requires connection to a DC power adapter firstly.

5. Mini-HDMI port

- Connect your device with HDMI port.

6. Earphone jack Port:

- Used to connect Earphone jack.



IMPORTANT:

- 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.
- For the best performance, please use power adapter for MB16AMTR.



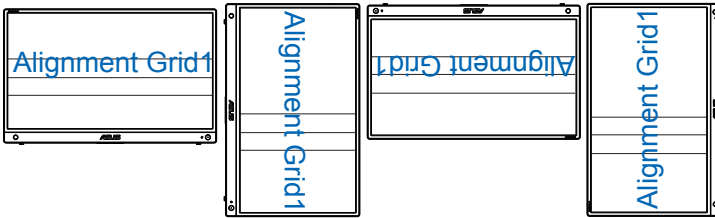
WARNING: The adapter may become warm to hot while in use. DO NOT cover the adapter and keep it away from your body while it is connected to a power source. If your device become unusual hot, disconnect the USB cable from your device and send the device including the power adapter and USB cable to an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

1.3.2 QuickFit Function

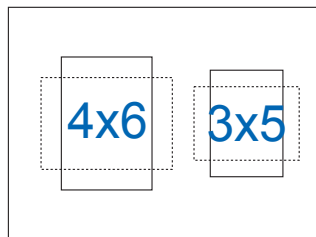
The QuickFit function contains two patterns: (1) Grid (2) Photo size.

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

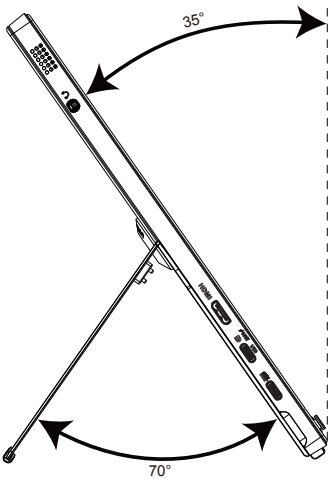
Alignment grid 1 will be rotated automatically if auto rotation is enabled.



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

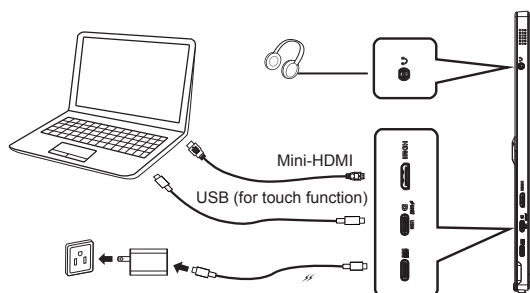


2.1 Adjusting the monitor



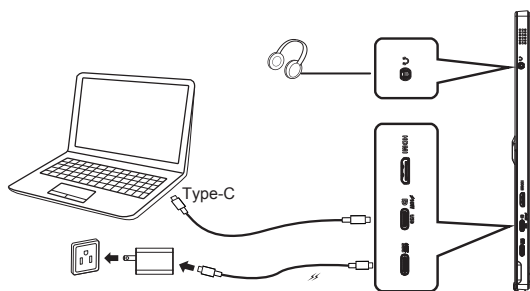
2.2 Connect the USB monitor with system

A



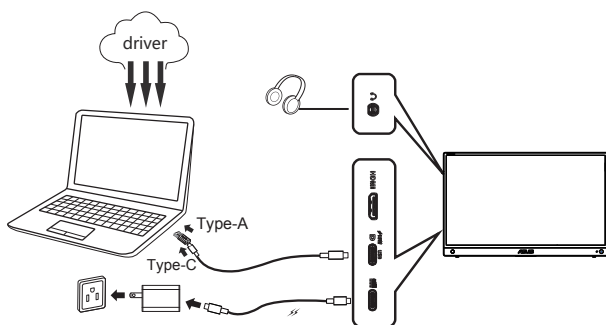
or

B



or

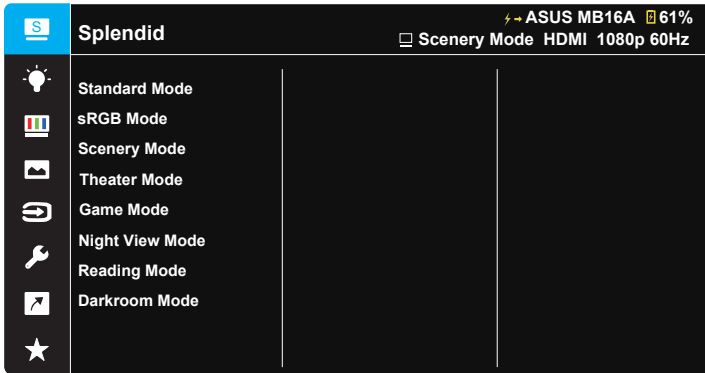
C



- Must connect USB cable between monitor and input device to enable touch signal transmission.

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 Up and Down keys  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 Right key  or the Central button .
4. Move the Up and Down keys to select the desired parameters.
5. Move the Right key  or 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 Left key  to return to the previous menu.

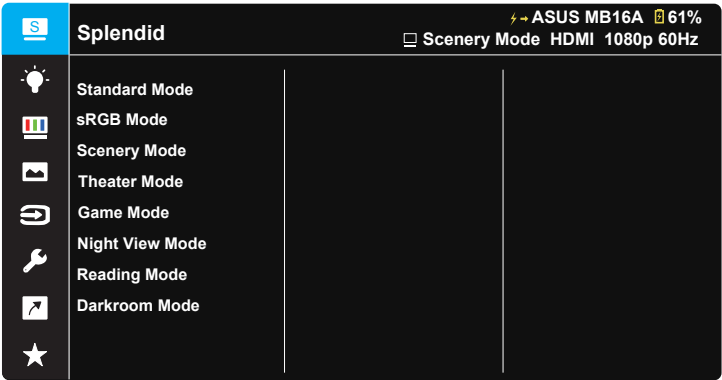


-  : Get power from source when this icon is shown
-  : Battery power
-  : Battery is being charged

3.1.2 OSD Function Introduction

1. Splendid

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



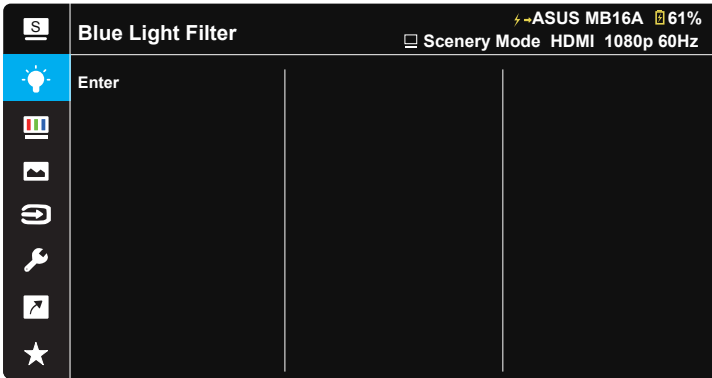
- **Standard Mode:** This is the best choice for document editing with SPLENDID™ Video Intelligence Technology.
- **sRGB Mode:** This is the best choice for viewing photos and graphics from PCs.
- **Scenery Mode:** This is the best choice for scenery photo displaying with SPLENDID™ Video Intelligence 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 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, 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.



- **Blue Light Filter:** In this function, you can adjust the blue light filter from Min to max. Min: no changes; Max: 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. Besides maximum level, the brightness is user-configurable. Maximum is the optimized setting. It is compliance with TUV low blue light certification*. The brightness function is not user configurable.



- When the user adjusts blue light filter bar to maximum level.

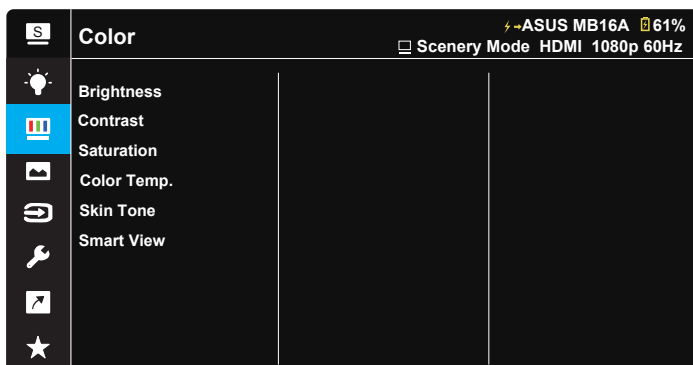


Please refer to the following to alleviate eye strains:

- 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.



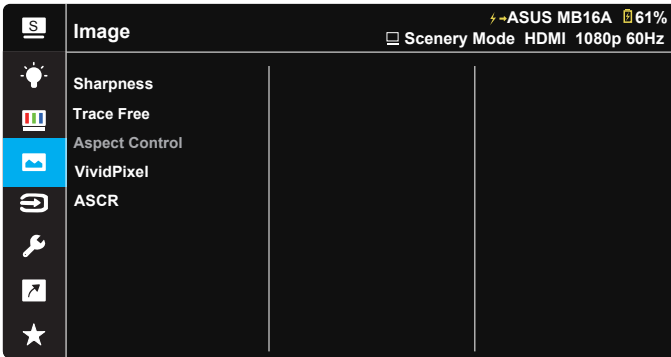
- **Brightness:** The adjusting range is from 0 to 100.
- **Contrast:** The adjusting range is from 0 to 100.
- **Saturation:** The adjusting range is from 0 to 100.
- **Color Temp.:** Contains three preset color modes (**Cool**, **Normal**, **Warm**) and **User Mode**.
- **Skin Tone:** Contains three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



- 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.



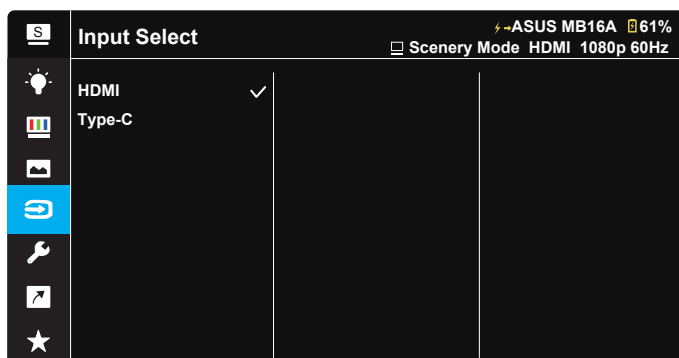
- **Sharpness:** Adjusts the picture sharpness. The adjusting range is from 0 to 100.
- **Trace Free:** Speeds up the response time by Over Drive technology. The adjusting range is from lower 0 to faster 100.
- **Aspect Control:** Adjusts the aspect ratio to “Full”, “4:3”.
- **VividPixel:** ASUS Exclusive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

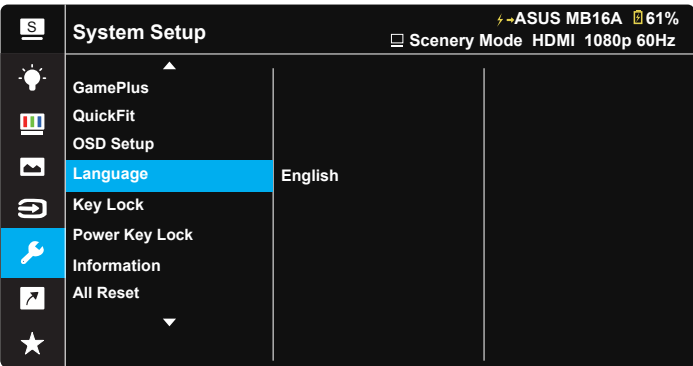
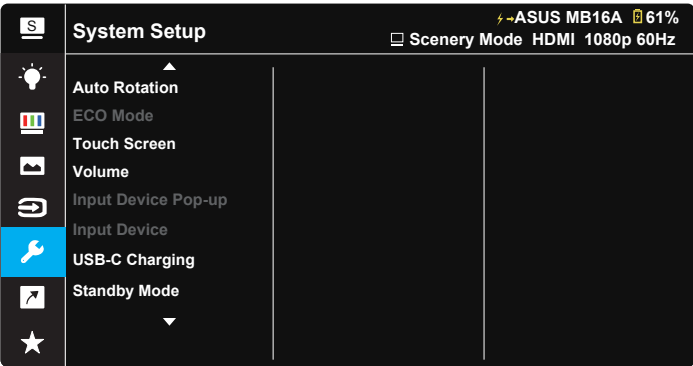
5. Input Select

Select the input source from **HDMI**, **Type-C** input signal.



6. System Setup

Adjusts the system configuration.

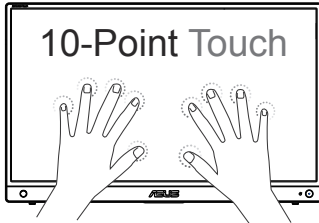


- **Auto Rotation:** To enable/disable rotate image automatically. Please be noted that Auto rotation function is only working under **Windows OS** by installing DisplayWidget Center software.
- **ECO Mode:** Activate this ecology mode for power saving. When the battery power is under 20%, ZenScreen 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.

- **Touch Screen:** Portable Display MB16AMTR is a touch monitor which uses 10 point touch panel technology. Please use with Windows 10 OS or above. You can use either single finger touch, or multi-finger touch up to maximum simultaneous 10 touch points. You can also disable touch function here.



- **Volume:** Adjust the headphone and speaker 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.

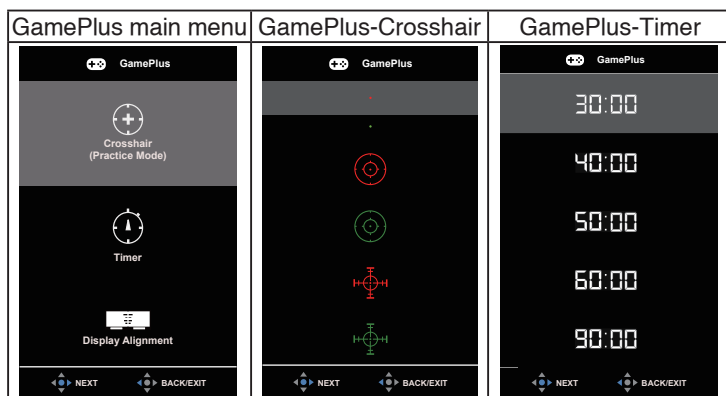
USB-C Charging: Type-C output (up to 10W power) requires connection to a DC power adapter firstly. It can be turned off(disable) when not in use.

- **Standby Mode:** Select ON for wake up during power saving; Select OFF to power off monitor after power saving 15 second.
- **GamePlus:** The GamePlus Function provides a toolkit and creates a better gaming environment for users when playing different types of games. Particularly, Chrosshair 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, or Display Alignment function.
- Move the  button up/down to select and press  to confirm the function needed. Press **X** to go off, and exit.

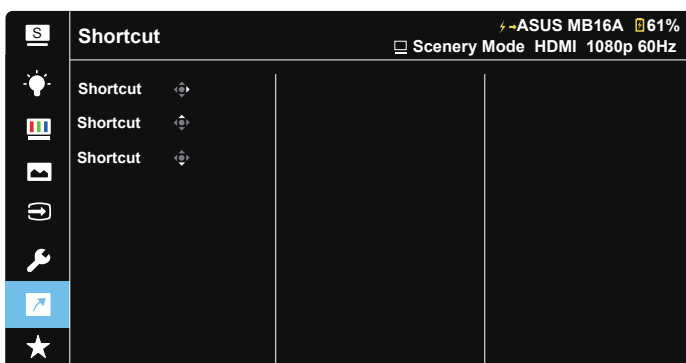
- Crosshair/Timer is movable by moving  5-way key.



- **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, Indonesian, Ukrainian, Vietnamese.**
- **Key Lock:** Disable all key functions. Pressing the down button for more than five seconds to disable key lock function.
- **Power Key Lock:** To disable / enable power key.
- **Information:** Displays the monitor information.
- **All Reset:** Selects “Yes” to revert all settings to the factory default mode.

7. Shortcut

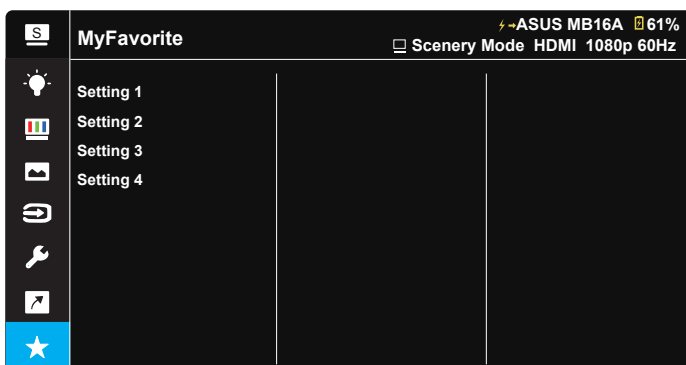
Selecting this option allows you to set shortcut key.



- **Shortcut** : User can select from “Blue Light Filter” “Splendid”, “Brightness”, “Contrast”, “Auto Rotation”, “Input Select”, “Volume” and set as shortcut key. Right key defaults to volume. Up key defaults to input selection. Down key defaults to brightness.

8. MyFavorite

Load/Save all settings on the monitor.

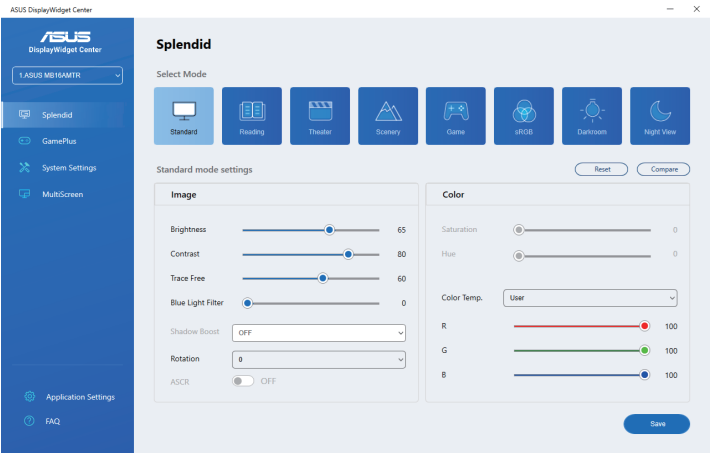


3.2 DisplayWidget Center

Please go to MB16AMTR official website, find “Support” tab and choose “Driver &Utility” to download latest DisplayWidget Center.

Please always connect your MB16AMTR to input device **FIRST**, and then turn on DisplayWidget Center.

We also suggest you to create a shortcut of DisplayWidget Center on your computer desktop for easier activation.



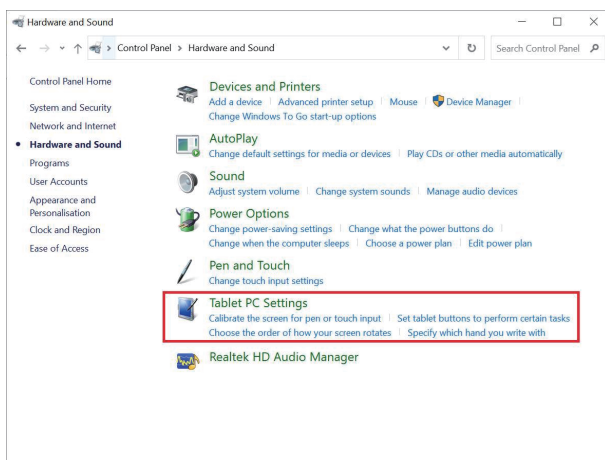
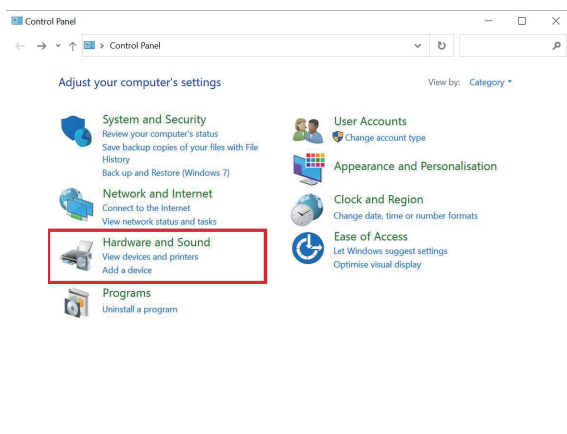
3.3 Touch Panel Setting

When your input device is connected to more than 1 extended monitor, please follow below guidance to do touch setting.

Search “Control Panel” in your windows search box and click on it.

Click on **Hardware and Sound** > Click on **Tablet PC Settings**> Click on **Setup**

Follow screen instruction to click on enter key or touch the screen, when the setting message is on non-touch panel please click enter key, when the setting message is moved to MB16AMTR screen please touch MB16AMTR screen at this time; the setting is then done.



3.4 Specifications

Model	MB16AMTR
Panel Size	15.6" (16:9, 39.49cm) wide screen
Resolution	1920 x 1080
Brightness (Typ.)	250nits
Contrast (Typ.)	700:1
Display Colors	262K
H-Frequency	24KHz ~ 83KHz (HDMI) / 83KHz(Type-C)
V-Frequency	50Hz ~ 61Hz (HDMI/Type-C)
Digital Input	USB Type-C (DisplayPort Alt Mode & Displaylink) / Mini HDMI
Colors	Dark Gray
Power Consumption	≤ 10 W
Operating Temp.	0° ~ 40°C
Phys. Dimension (WxHxD)	35.99 x 22.68 x 1.19 cm
Box Dimension (WxHxD)	48.80 X 29.80 X 8.80 cm
Net Weight (Esti.)	1.15 kg
Gross Weight (Esti.)	2.29 kg
Voltage Rating	INPUT 100-240V, 50/60Hz; OUTPUT 5V or 9V ---, 3.0A, or 12V ---, 2.5A

*Specifications are subject to change without notice.

3.5 Troubleshooting (FAQ)

Problem	Possible Solution
Power LED is not ON	• Press the  button to check if the monitor is in the ON mode. • Check if the signal cable is properly connected to the monitor and the computer. • Check if the USB Type-C cable is properly connected to the “DC in” port of the monitor and the adaptor.
The power LED lights amber and there is no screen image	• Check if the monitor and the computer are in the ON mode. • Make sure the signal cable is properly connected between 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	• Adjust the Brightness settings via the button.
Screen image bounces or a wave pattern is present in the image	• Make sure the signal cable is properly connected between the Monitor and the computer. • Move electrical devices that may cause electrical interference.
How to use C to DP cable with factory default settings?	• Plug the ASUS PD adaptor into DC in port. (Factory default OSD USB-C charging option is on) • Plug the C to DP cable into the USB-C port. • Start using the MB16AMTR.

Problem	Possible Solution
When the OSD USB-C Charging option is switched from on to off, it results in no signal when connected via Type-C to DP cable. How should this be addressed?	- Power supply is required. Please follow the steps below to configure the monitor. 1. Plug the ASUS PD adaptor into DC in port. 2. Input video: (a) HDMI video by mini HDMI cable. (b) USB Type-C video by C to C cable. (c) USB Type-C video by C to A cable. 3. Open main menu OSD. Set USB-C Charging to ON. 4. Reconnect the C to DP cable
Device with Type C port which cannot support DP ALT mode	You can search MB16AMTR driver on ASUS official site, find "Support" tab on product page, then choose "Driver & Tools".
Forced restart method when crash occurs (Battery screen has force restart function)	Press the center of the five-way key and the power key for 1~2 seconds simultaneously.
ASUS LOGO repeatedly displayed during startup	- Check whether the adaptor is connected. - Use the original Type-C Cable and adapter.
Can't display image after connecting to Type-C cable	Use the original Type-C Cable and adapter

3.6 Supported Timing List

PC Supported Primary Timing

Resolution	Refresh Rate	Horizontal Frequency
640x480	60Hz	31.469
800x600	60Hz	37.879
1024x768	60Hz	48.363
1280x720	60Hz	44.772
1280x960	60Hz	60
1280x1024	60Hz	63.981
1440x900	60Hz	55.935
1680x1050	60Hz	65.29
1920x1080	60Hz	66.587
640x480P	60Hz	31.469
720x480P	60Hz	31.469
720x576P	50Hz	31.25
1280x720P	50Hz	37.5
1280x720P	60Hz	45
1920x1080P	50Hz	56.25
1920x1080P	60Hz	67.5