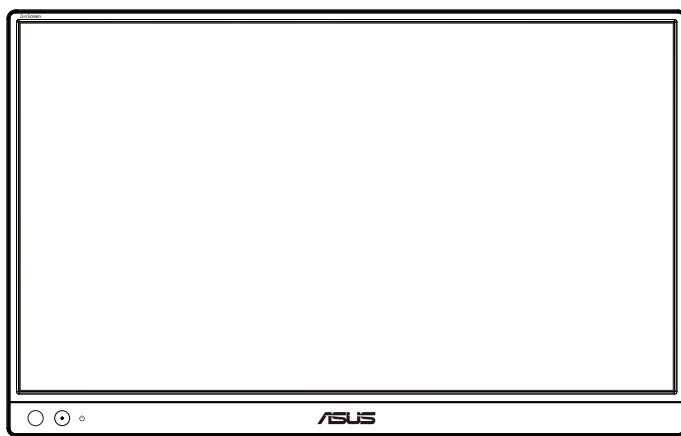




MB16AHVE

Portable USB Monitor

User Guide



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Declaration

Federal Communications Commission Declaration

This device meets the requirements of Part 15 of FCC rules. Its operation meets the following two conditions:

- This device may not cause harmful interference, and
- This device must be able to withstand any interference received, including interference that may lead to abnormal operation.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference for installation in residential areas. This device generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the manufacturer's instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur under specific installation conditions. If this device causes harmful interference to radio or TV reception (which can be determined by powering off and on the device), users are advised to take one or more of the following measures to eliminate the interference:

- Reorient or relocate the receiving antenna.
- Increase the distance between the device and the receiver.
- Connect this device and the receiving device to power sockets of different circuits.
- Consult an agent or an experienced radio/TV technician for help.

Declaration of Canadian Ministry of Communications

This digital device does not exceed the Class B limit of radio noise emission of digital device specified in the Radio Interference Regulations of the Canadian Ministry of Communications.

This Class B digital device meets the requirements of Canada ICES-003.



Note: This monitor has obtained ENERGY STAR certification.

This product conforms to the ENERGY STAR specification under the factory default setting, which can be restored by "Restore Factory Default" in the OSD menu. Changing the factory default settings or enabling other functions may increase power consumption, thereby exceeding the limits specified by ENERGY STAR.



Statement of Compliance

This device meets the requirements stipulated in the Council Directive on coordinating and unifying the laws of member countries in terms of electromagnetic compatibility (2014/30/EU), low voltage directive (2014/35/EU), ErP directive (EU) 2024/1781 and RoHS directive (2011/65/EU). This product has been tested and proved to comply with the coordination standards related to information technology devices, which are issued in accordance with the directives of the official gazette of the European Union.

WEEE symbolic declaration

This symbol on the product or its packaging means that the product shall not be discarded along with other household garbage. It is your responsibility to send your discarded device to a special recycling site for the recycling of discarded electrical and electronic devices. Recycling your discarded device separately will help to save natural resources and ensure that it is recycled in a way that protects personal health and environmental protection. For more information about the recycling agencies for discarded devices, please contact local municipal agencies, domestic waste disposal agencies, or sales stores of this product.



Security Information

- Before setting up this portable USB monitor, please read all the documents attached in the product packaging carefully.
- In order to prevent fire or electric shock, do not expose this portable USB monitor to rain or moisture.
- Do not open the enclosure of this portable USB monitor.
- Before using this Portable USB Monitor, make sure that all cables are connected correctly and the power cord is not damaged. If there is any damage, please contact the dealer immediately.
- Avoid dust, humidity and extreme temperatures. Do not place this portable USB monitor in any area that may be subject to dampness. Please place this portable USB monitor on a stable surface.
- Do not insert any foreign objects or splash any liquid into the opening on the enclosure of this portable USB monitor.
- If you encounter any technical problems in using this Portable USB Monitor, please contact professional technical service personnel or the dealer.
- According to IEC 62368-1:2018, this Portable USB Monitor is powered via a USB port compliant with an LPS circuit.

Warning

Use of other handsets or earphones may cause hearing loss due to excessive sound pressure.

Please confirm that the power distribution system should provide a circuit breaker with a rated value of 120/240V and 20A (maximum) when this product is installed in buildings.

If the power cord is provided with a 3-pin plug, please plug the power cord into a grounded 3-hole socket. Do not disable the grounding tab of the power cord, for example, connect the 2-tab adapter. Grounding tab is an important safety measure.

Stability hazard.

Once this product falls, it may cause serious personal injury or even death. To avoid injury, this product must be firmly installed on the floor/wall according to the installation instructions.

Once this product falls, it may cause serious personal injury or even death. In order to avoid many injuries (especially to children), some simple preventive measures can be taken, such as:

Be sure to use cabinets or shelves or installation methods recommended by the product manufacturer.

Be sure to use furniture that can safely support this product.

Do not allow this product on the edge of its supporting furniture.

Be sure to explain to children the dangers of climbing furniture to reach this product or for its control.

Be sure to lay the cables connected to this product properly to prevent them from tripping people, being pulled or squeezed.

Do not put this product in an unstable place.

Do not place this product on tall furniture (for example, cabinet or bookcase) unless the furniture and product are fixed on a suitable bracket.

Never place cloth or other items between this product and the supporting furniture.

Never place items such as toys and remote controls on the top of this product or the furniture supporting this product, as they may attract children to climb.
If the existing product needs to be kept and relocated, the above precautions are also applicable.

■ ASUS CONTACT INFORMATION		
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Fax +886-2-2894-7798	Fax +1-510-608-4555	Website http://www.asus.de/
E-mail info@asus.com.tw	Website http://usa.asus.com/	Online Contact http://www.asus.de/sales
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	Online Support http://support.asus.com/	Online Support http://support.asus.com/

Warning

- For Class I devices, power plugs with protective grounding and well-grounded power grid connection shall be used. When installing in a building, please confirm that the power distribution system can meet the rated voltage of the device.
- In order to prevent fire or explosion, do not expose the monitor to rain or wet environment. There is dangerous high voltage in the monitor. Don't open the monitor enclosure. If maintenance is required, please find professional maintenance personnel for operation.
- Any change or adjustment that is not carried out in accordance with the user's manual may lead to electric shock, electrical or mechanical danger.
- Do not place the monitor on an unstable cart, platform, tripod, stand or table. If the monitor falls, it may cause personal injury and serious damage to the product. Use only the installation accessories recommended by the manufacturer and install the product according to the manufacturer's instructions.
- There may be many long and narrow openings in the upper and lower parts of the back enclosure for ventilation. In order to ensure the continuous operation of the monitor without overheating, these openings for heat dissipation shall not be blocked or covered. The monitor shall not be placed on a bed, sofa, blanket or similar surface, or near a radiator or a heat source. It shall not be placed in a bookcase or box unless ventilation is guaranteed.
- Do not insert any foreign objects into the opening of the back enclosure of the monitor. Otherwise, it may damage the circuit components and cause fire or electric shock. Do not splash liquid on the monitor.

Battery Usage Precautions (Applicable for models with batteries or button cells)

- Replacement with an incorrect battery model may compromise safety protections, posing a risk of fire or explosion.
- Disposing of the battery in a fire or heating oven, or subjecting it to mechanical crushing or cutting may cause an explosion.
- Exposing the battery to extreme temperatures or low-pressure environments may cause it to explode or expel flammable liquid or gas.
- Keep children away from new and used batteries.
- If the battery compartment does not close securely, stop using the product immediately and keep it out of the reach of children.

- Do not swallow the battery. Swallowing may lead to severe chemical burns. If a button cell battery is swallowed, it can cause severe internal burns within 2 hours and possibly lead to death.
- If you suspect that a battery might have been swallowed or placed inside any part of the body, seek immediate medical attention.

Environmental conditions (during operation)

Temperature	0°C ~ 40°C
Humidity	10% ~ 85% (non-condensing)
Altitude	0 ~ 5000 m (0 ~ 16404 ft)

Maintenance and Cleaning

- Cleaning. Turn off the monitor and unplug the power cord. Clean the monitor surface with a linen-free and non-abrasive cloth. Dip the cloth in neutral detergent and wipe off stubborn stains.
- Do not use detergents containing alcohol or acetone. Use a special detergent for LCD. Do not spray the detergent directly on the screen, otherwise the detergent may seep into the monitor and cause electric shock.
- Use clean water only for cleaning.

The following phenomena are normal for the monitor:

- You may find that the brightness on the screen is slightly uneven, which is related to the desktop pattern you use.
- After the same image is displayed for several hours, the image displayed on the previous screen may remain when switching to another image. The screen will recover slowly, or you can turn off the power switch for several hours.
- When the screen turns blank or flashes, or fails to work, please contact the dealer or service center for repair. Don't repair the screen yourself!

Conventions used in this manual



Warning: This information is intended to prevent you from getting hurt when you are trying to complete a task.



Caution: This information is intended to prevent components from being damaged when you are trying to complete a task.



Important: You must follow this information when completing a task.



Note: These tips and additional information are designed to help you complete a task.

More information

For more information or product and software updates, please use the following resources.

1. **ASUS website**

The ASUS global website provides updated information about ASUS hardware and software products, and the address is <http://www.asus.com>

2. **Optional documents**

Your dealer may have added optional documents to your product packaging. These documents are not part of the standard product packaging.

3. **Protect your eyes with ASUS EYE CARE Monitor**

The latest ASUS monitors incorporate proprietary technologies to reduce blue light and eliminate flicker, safeguarding your eye health in today's digital world.

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

Recycling Service

ASUS recycling and recovery plan stems from our commitment to the highest standards of environmental protection. We advocate providing customers with solutions through which the products, batteries and other components and packaging materials can be reliably recycled.

Please visit <http://csr.asus.com/english/Takeback.htm>, to learn more about recycling in different regions.

Product EU Energy Label Information



MB16AHVE

1.1 Thank you for using!

Thank you for purchasing an ASUS® Portable USB Monitor!

The latest ASUS Portable USB Monitor can provide portability and convenience for your daily life, and improve your viewing experience and way.

1.2 List of Items

Check whether the following items are included in the packaging:

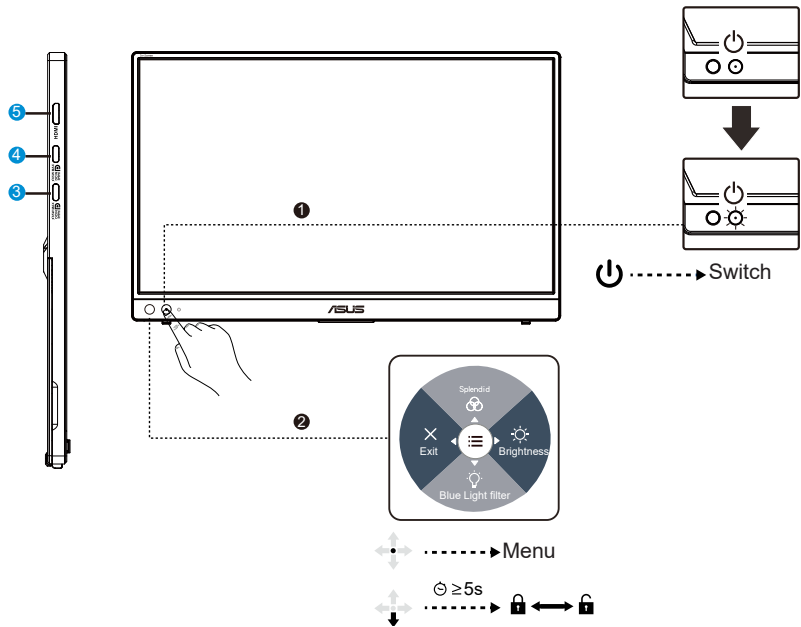
- ✓ Portable USB monitor
- ✓ Quick Start Guide
- ✓ Warranty card
- ✓ USB Type-C cable
- ✓ Mini HDMI to HDMI Cable
- ✓ Protective case



-
- If any of the above items are damaged or missing, please contact the dealer immediately.
-

1.3 Brief Introduction of Monitor

1.3.1 Front Overview



1. Power button/power LED

- Press this button to turn the monitor on/off.
- The following table describes the color indications of Power Indicator.

Status	Introduction
Blue	Start
Amber	Standby mode
Dark	Close

2. 5-way Key

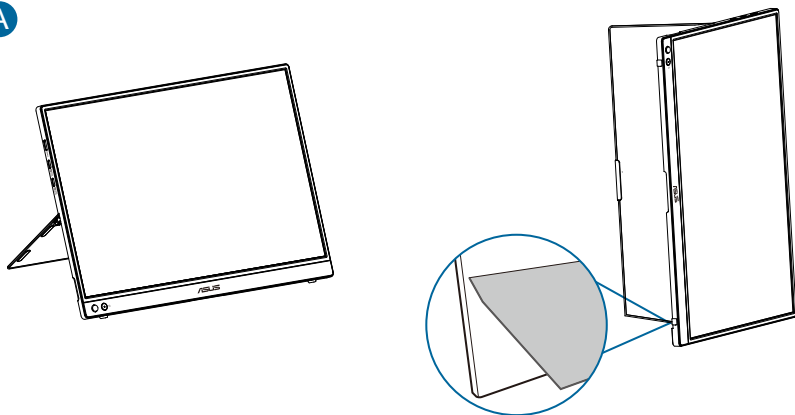
- Press the button to open the function menu. Activate the selected OSD menu item.
- Increase/decrease values or navigate up/down/left/right.

3. USB Type-C Port
4. USB Type-C Port
5. Mini-HDMI Port
 - Connect your device to the HDMI port.

2.1 Portrait Orientation

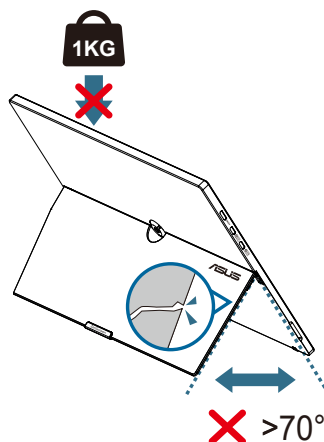
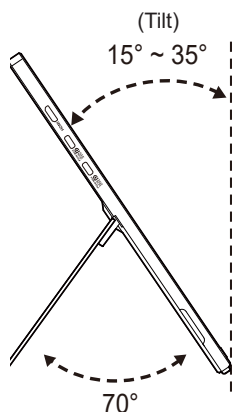
You can orient the monitor in either landscape or portrait position.

A

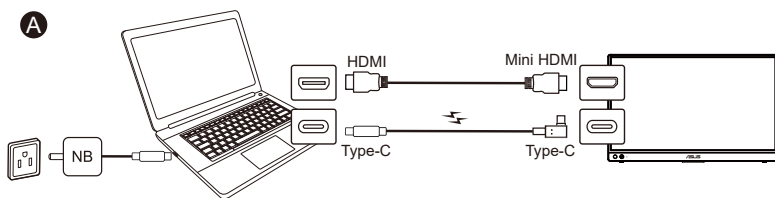


2.2 Adjusting the Monitor

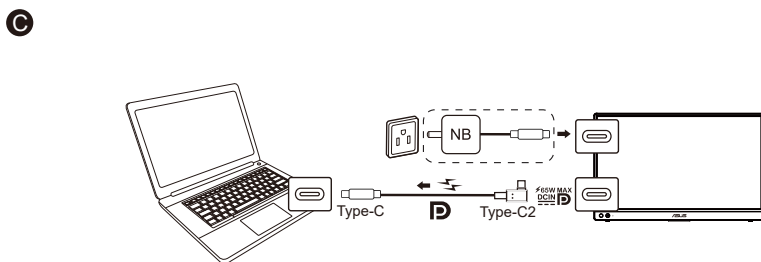
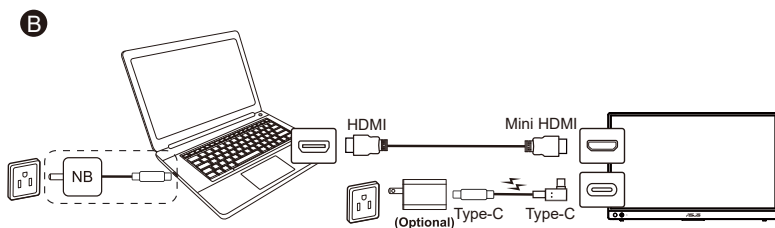
- For an optimal viewing experience, we recommend that you face the monitor directly and adjust it to the angle you find most comfortable.
- When adjusting the tilt, always hold the base to prevent the monitor from falling.
- The tilt angle is adjustable from 15° to 35°.



2.3 Connecting USB Monitor and System



Or



For Charging Use:

- You can use a PD adapter for charging. A $\geq 30\text{W}$ PD adapter is required; For maximum 65W charging, use a PD adapter $> 75\text{W}$.
- If you encounter any abnormal charging conditions, please check whether the power capacity of the adapter connected to the MB16AHVE is sufficient to charge both the MB16AHVE and other devices simultaneously.

Please ensure that the connected host system supports USB Type-C "DisplayPort™ Alt Mode" and that both ends of the USB Type-C cable are correctly connected to the USB monitor and the host system.

3.1 OSD (On-Screen Display) Menu

3.1.1 How to Reconfigure

 MB16AHVE 1920 X 1080	ZenScreen Preset Standard Mode	Input Select USB-C-1
	Brightness 65	Refresh Rate 60 Hz
▲		
 Splendid	Standard Mode	☒
	sRGB Mode	☐
 Eye Care	Scenery Mode	☐
	Theater Mode	☐
 Image	Game Mode	☐
	Reading Mode	☐
 Color	Darkroom Mode	☐
	User Mode	☐
 Input Select		
▼		
	 Back / Exit	 Enter

1. Press the Menu button to display the OSD menu.
2. Press the ▼ and ▲ buttons to navigate through the options in the menu. As you move from one icon to another, the option name is highlighted.
3. To select a highlighted menu item, press the center button.
4. Press the ▼ and ▲ buttons to select the desired parameter.
5. Press the center button to enter the slider, then use the ▼ or ▲ button (as indicated in the menu) to adjust the value.

3.1.2 Introduction to OSD Functions

1. Splendid

This function contains 8 sub-functions, which you can choose according to your needs.

ASUS MB16AHVE 15.6" 5: 16:9	ZenScreen Preset Standard Mode	Input Select USB-C-1
	Brightness 65	Refresh Rate 60 Hz
▲		
Splendid Eye Care Image Color Input Select ▼	Standard Mode	☒
	sRGB Mode	☐
	Scenery Mode	☐
	Theater Mode	☐
	Game Mode	☐
	Reading Mode	☐
	Darkroom Mode	☐
	User Mode	☐
◀ Back / Exit		▶ Enter

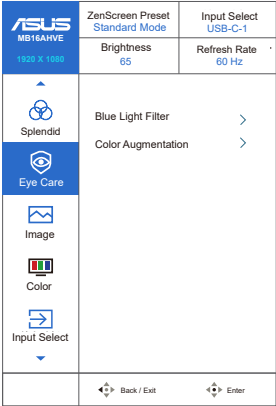
- **Standard mode:** This is the best option when editing documents with SPLENDID™ video intelligence technology.
- **sRGB mode:** This is the best option when browsing photos and graphics in PC.
- **Scenery Mode:** This is the best option when using SPLENDID™ video intelligence technology to display landscape photos.
- **Theater mode:** This is the best option when watching movies with SPLENDID™ video intelligence technology.
- **Game mode:** This is the best option when playing games with SPLENDID™ video intelligence technology.
- **Reading mode:** This is the best option when reading.
- **Darkroom Mode:** Ideal for use in low-light environments.
- **User Mode:** Allows for adjustment of additional color parameters.



- In sRGB mode, users cannot adjust functions such as saturation, Color Temp., and contrast.

2. Eye Care

Adjust the LED backlight's "Eye Care" energy level.



- **Blue Light Filter:** This function allows you to adjust the blue light reduction across five levels. Disabled: No change. Level 4: Higher levels block more blue light. When the blue light filter is on, the settings of Standard Mode are automatically imported. Brightness remains configurable by the user except at the maximum filter level, which is locked to an optimal preset. This function is compliant with TUV Low Blue Light requirements.
- **Color Augmentation:** The adjustment range for Color Augmentation is from 0 to 100.



-
- This function is unavailable in Splendid's sRGB mode.
-



Please refer to the following instructions to alleviate eye fatigue:

- After working for a long time, the user shall stop staring at the monitor for a period of time. It is recommended to take a break (at least 5 minutes) after working continuously on the laptop for 1 hour. Frequent short breaks are more effective than a single long break.
 - In order to minimize eye fatigue and dryness, the user shall rest his/her eyes regularly and stare at distant scenery for a while.
 - Eye exercises help to alleviate eye fatigue. The user shall do eye exercises often. If the eye fatigue continues, please consult a doctor. Eye exercises: (1) Look up and down repeatedly (2) Turn the eyeball slowly (3) Move the eyeball obliquely.
 - High-energy blue light can easily lead to eye fatigue and AMD (age-related macular degeneration). Blue Light filter can reduce harmful Blue Light by 70% (at most), thus avoiding CVS (Computer Vision Syndrome).
-

3. Image

You can adjust image Brightness, Contrast, Sharpness, Trace Free and Aspect Control in this main function.

ASUS MB16AHVE 1920 X 1080 Splendid Eye Care Image Color Input Select	ZenScreen Preset Standard Mode	Input Select USB-C-1
	Brightness 65	Refresh Rate 60 Hz
	Brightness >	
	Contrast >	
	Sharpness >	
Trace Free >		
Aspect Control >		
Back / Exit Enter		

- **Brightness:** It can be adjusted from 0 to 100.
- **Contrast:** It can be adjusted from 0 to 100.
- **Sharpness:** Adjust the image sharpness.It can be adjusted from 0 to 100.
- **Trace Free:** It uses Overdrive technology to accelerate pixel response time. Adjustment range: 0-100 (Slow to Fast).
- **Aspect Control:** Adjust aspect ratio.

4. Color

With this function, you can select your favorite image color.

ASUS MB16AHVE 1920 X 1080	ZenScreen Preset Standard Mode	Input Select USB-C-1
	Brightness 65	Refresh Rate 60 Hz
▲	Saturation > Color Temp. >	
Splendid		
Eye Care		
Image		
Color		
Input Select		
▼		
⏮ Back / Exit		⏭ Enter

- **Saturation:** It can be adjusted from 0 to 100.
 - **Color Temp.:** Including three preset color modes (**Cool, Normal and Warm**) and **User Mode**.
-
- 
- In User mode, the user can configure R (Red), G (Green) and B (Blue), with an adjustment range of 0 ~ 100.
-

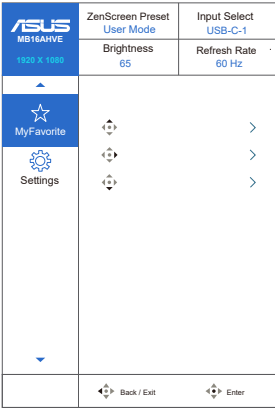
5. Input Select

Select Input Source: Auto Input Detection, HDMI, USB-C-1, USB-C-2.

ASUS MB16AHVE 1920 X 1080	ProArt Preset Standard Mode	Input Select USB-C-1
	Brightness 65	Refresh Rate 60 Hz
▲	Auto Input Detection ☒ HDMI ☒ USB-C-1 ☐ USB-C-2 ☐	
Splendid		
Eye Care		
Image		
Color		
Input Select		
▼		
⏮ Back / Exit		⏭ Enter

6. MyFavorite

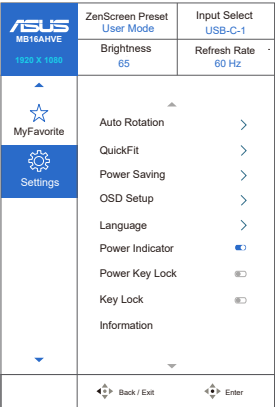
Selecting this option allows you to assign functions to three MyFavorite keys.



- : Users can select functions such as "Splendid", "Brightness", "Contrast", "Auto Rotation", "Input Select", "Blue Light Filter", and "Color Temp.", and assign them as MyFavorite keys. The default setting is Splendid.
- : Users can select functions such as "Splendid", "Brightness", "Contrast", "Auto Rotation", "Input Select", "Blue Light Filter", and "Color Temp.", and assign them as MyFavorite keys. The default setting is Brightness.
- : Users can select functions such as "Splendid", "Brightness", "Contrast", "Auto Rotation", "Input Select", "Blue Light Filter", and "Color Temp.", and assign them as MyFavorite keys. The default setting is Blue Light Filter.

7. Settings

Adjust the system configuration.

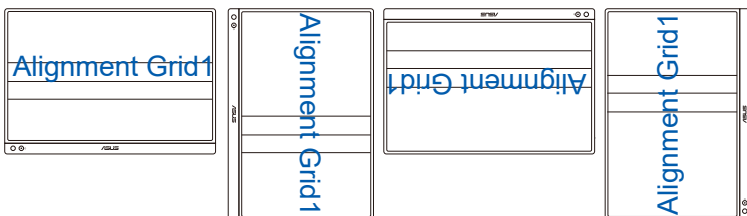


- **Auto Rotation:** Enables/Disables auto image rotation. Please note that Auto Rotation function can be used in Windows system with DisplayWidget Center software installed.

- **QuickFit:** QuickFit function includes two patterns: (1) Grid, and (2) Photo size.

1. Grid pattern: It can help designers and users organize the content and layout of the page to achieve a coherent appearance.

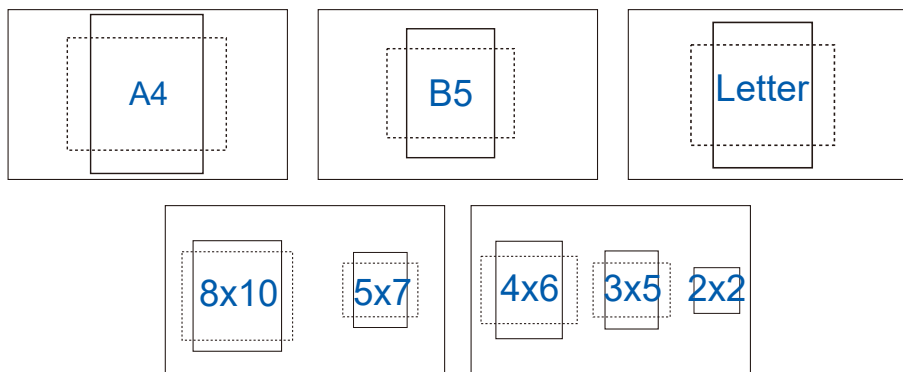
If auto rotation is enabled, the alignment grid 1 will rotate automatically.



- Auto Rotation function can be used in Windows system with DisplayWidget Center software installed.



2. Photo size: It allows photographers and other users to view and edit photos at actual size on the screen.



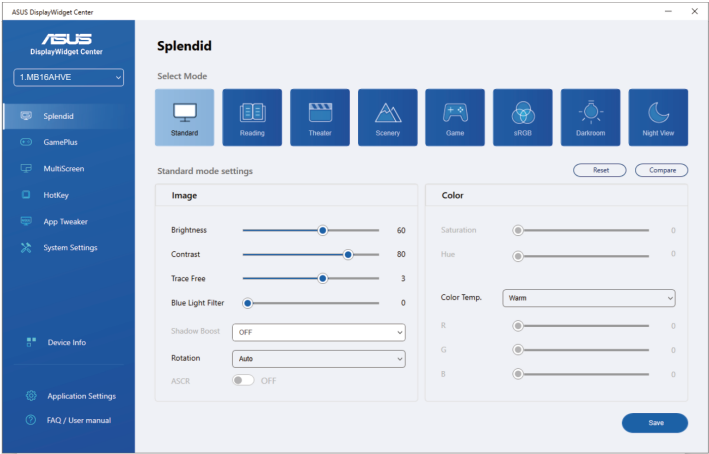
- **Power Saving:** Adjust power settings between "Performance Mode" and "Power Saving Mode".
- **OSD Setup:** Adjust the OSD Timeout, DDC/CI and Transparency.
- **Language:** Select OSD language. Options include: **English, Français, Deutsch, Español, Italiano, Nederlands, Русский, Polski, Čeština, Hrvatski, Magyar, Română, Português, Türkçe, 简体中文, 繁體中文, 日本語, 한국어, العربية, ไทย, Bahasa Indonesia, Українська, Tiếng Việt.**
- **Power Indicator:** Turn on/off the power LED indicator.
- **Power Key Lock:** Disable/Enable the power key.
- **Key Lock:** Disable all key functions. Press and hold the Down key for more than five seconds to disable the Key Lock function.
- **Information:** Display information about the monitor.
- **All Reset:** When "Yes" is selected, all settings will be restored to factory default mode.

3.2 DisplayWidget Center

Please visit the official MB16AHVE website, locate the "Support" tab, select "Driver & Utility", and download the latest version of DisplayWidget Center.

Always connect your MB16AHVE to the input device **first**, prior to launching the DisplayWidget Center.

It is also recommended that you create a shortcut to the DisplayWidget Center on your computer desktop for easy activation.



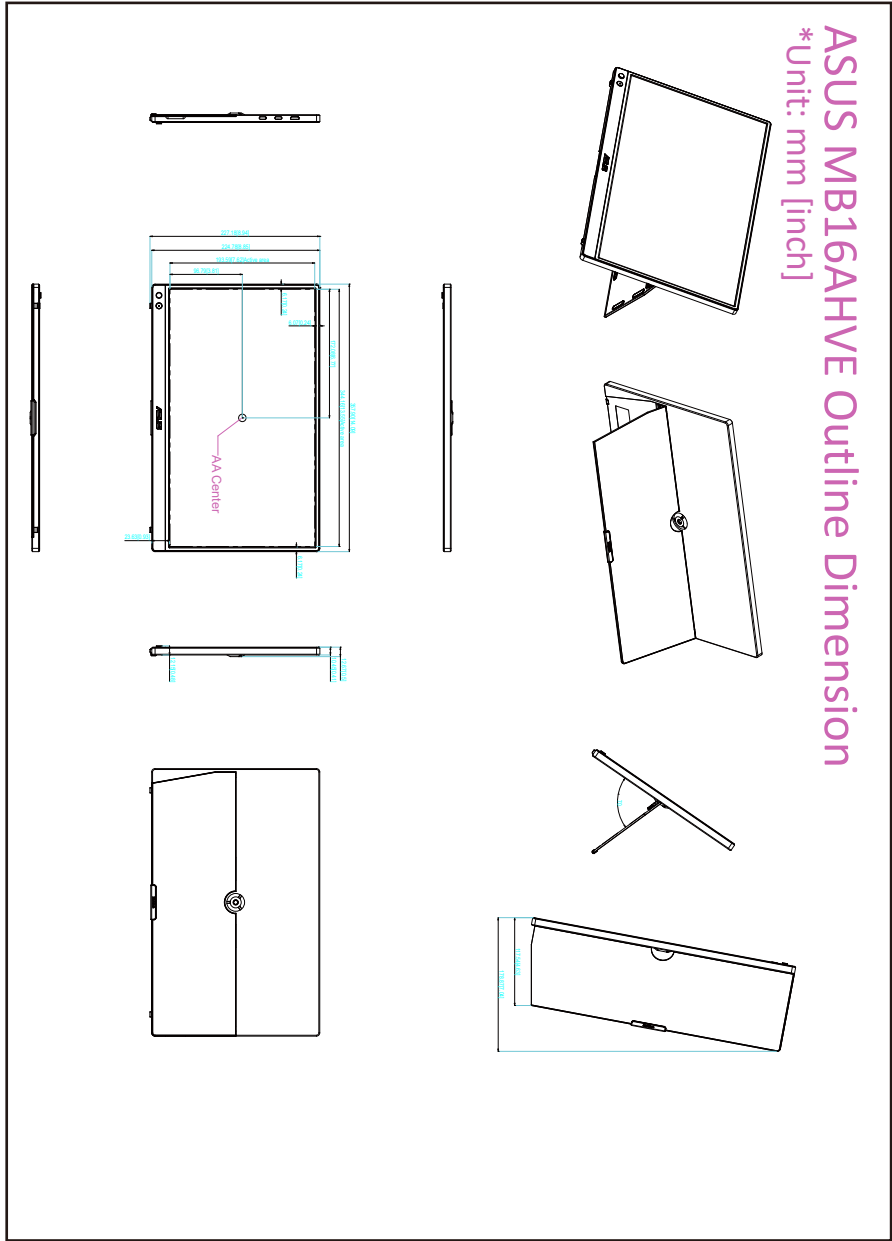
3.3 Specification

Model	MB16AHVE
Panel Dimension	15.6-inch (16:9) widescreen
Resolution	1920 x 1080
Brightness (typical)	250 nits(Typ.)
Contrast (typical)	1000:1
Display color number	16.7M colors (6bit+FRC)
Digital input	USB Type-C™ (DisplayPort™ Alt Mode) / Mini HDMI
Color	Black
Power consumption	Power on: ≤6 W** (Typ.)
Working temperature	0° ~ 40°
Physical dimensions (WxHxD)	35.79 x 22.48 x 1.05 cm
Packaging dimensions (WxHxD)	47.80 x 29.70 x 8.50 cm
Net Weight (est.)	0.9 kg
Gross weight (estimate)	2.0 kg
Rated voltage	5V=3.0A or 9V=3.0A or 12V = 2.5A or 15V=2.0A or 20V=1.5A

* Specifications are subject to change without prior notice.

****Measurement at a screen brightness of 200 nits with audio, USB, and card reader connections disconnected.**

3.4 Outline Dimensions



3.5 Troubleshooting (FAQs)

Problems	Possible Solutions
The power LED does not light up	• Press  button to check whether the monitor is in Turn On mode. • Check whether the USB Type-C cable is correctly connected to both the monitor and the computer.
Power LED lights up in yellow, with no image displayed on the screen	• Check whether both the monitor and the laptop are in Turn On mode. • Ensure the USB Type-C cable is correctly connected between the portable USB monitor and the computer. • Check the signal cable to ensure there are no bent pins. • Connect the laptop to a working monitor and check whether the laptop is working properly.
The screen image is too bright or too dark	• Use the button to adjust the brightness setting.
The screen image jitters or ripple patterns appear in the image	• Ensure the USB Type-C cable is correctly connected between the portable USB monitor and the computer. • Remove the electronic device that may cause electronic interference.
The screen image colors are incorrect (white does not appear white).	• Check the USB Type-C cable to ensure there are no bent pins.

Problems	Possible Solutions
After connecting a USB Type-C Input Source device, the power LED continuously flashes or the ASUS logo is repeatedly displayed	• Insufficient power from the USB Type-C Input Source device. Please perform the following steps: • Press the Left Function Key, then connect the USB Type-C cable. This will enable the built-in safety mode. Release the "Blue Light" button after the ASUS logo appears. After the ASUS logo disappears, the "Safety Mode" message will be shown on the OSD. After such message disappears, set the background to white or a near-white image (*1). • Press the Menu button to display the Main Menu OSD. A small red "S" will appear in the Left - Top corner of the OSD, indicating that Safety Mode is now active. Navigate to the Brightness setting and press the Up key to increase the brightness level. During this process, record the brightness value "Y" until the MB16AHVE restarts (*2). For example, if the MB16AHVE restarts when the brightness is adjusted from "70" to "71", then "70" is the value to be recorded as "Y", which is also the maximum achievable brightness for the connected USB-C Input Source device. • Press the Menu button to display the Main Menu OSD. The "S" continues to be displayed in the Left - Top corner to indicate Safety Mode is active. Adjust the OSD brightness value to "Y". • To deactivate Safety Mode, first close the OSD, and then press and hold the left key for 5 seconds. Alternatively, you can use the assigned hotkey to turn off Safety Mode. • End.

1: A white background results in higher power consumption, making it ideal for testing the power limit of the USB Type-C Input Source device.

2: If the MB16AHVE does not restart when the value is adjusted to 100, it indicates that the USB Type-C Input Source device provides an adequate power supply.

3.6 List of Supported Clock

Clock	Resolution	HDMI	Type-C
PC Clock	640x480-60Hz	V	V
	800x600-60Hz	V	V
	1024x768-60Hz	V	V
	1280x960-60Hz	V	V
	1280x1024-60Hz	V	V
	1280x720-60Hz	V	V
	1600x1200-60Hz	V	V
	1920x1080-60Hz	V	V
Video Clock	640x480-60Hz	V	V
	720x480-60Hz	V	V
	720x576-50Hz	V	V
	1280x720-50Hz	V	V
	1280x720-60Hz	V	V
	1920x1080-24Hz	V	V
	1920x1080-25Hz	V	V
	1920x1080-30Hz	V	V
	1920x1080-50Hz	V	V
	1920x1080-60Hz	V	V

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