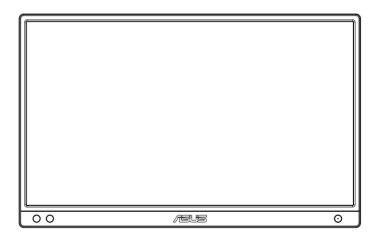


# MB166C Portable USB Monitor

# **User Guide**



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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.



# NOTE: This monitor is ENERGY STAR certified.

This product qualifies for ENERGY STAR in the factory default setting which can be restored by "Factory Reset" function in the OSD menu. Changing the factory default settings or enabling other features may increase power consumption that could exceed the ENERGY STAR specified limits.

# EAE

## **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 IEC60950-1:2005.

### WARNING

Usage of other than specified head- or earphones can result in hearing loss due to excessive sound pressures.

Please confirm the distribution system in building installation shall provide the circuit breaker rated 120/240V, 20A (maximum).

If provided with a 3-pin attachment plug on the power cord, plug the cord into a grounded (earthed) 3-pin outlet. Do not disable the power cord grounding pin, for example, by attaching a 2-pin adapter. The grounding pin is an important safety feature.

Stability Hazard.

The product may fall, causing serious personal injury or death. To prevent injury, this product must be securely attached to the floor/wall in accordance with the installation instructions.

A product may fall, causing serious personal injury or death. Many injuries, particularly to children, can be avoided by taking simple precautions such as:

ALWAYS use cabinets or stands or installation methods recommended by the manufacturer of the product set.

ALWAYS use furniture that can safely support the product.

ALWAYS ensure the product is not overhanging the edge of the supporting furniture.

ALWAYS educate children about the dangers of climbing on furniture to reach the product or its controls.

ALWAYS route cords and cables connected to your product so they cannot be tripped over, pulled or grabbed.

NEVER place a product in an unstable location.

NEVER place the product on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the product to a suitable support.

NEVER place the product on cloth or other materials that may be located between the product and supporting furniture.

NEVER place items that might tempt children to climb, such as toys and remote controls, on the top of the product or furniture on which the product is placed.

If the existing product is going to be retained and relocated, the same considerations as above should be applied.

# 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.

### Product information fro EU energy label



# 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:

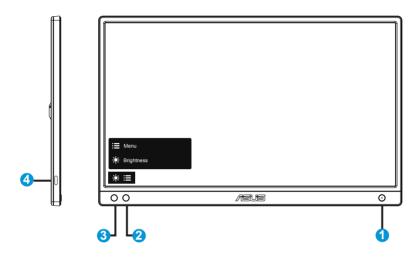
- ✓ Portable USB Monitor
- ✓ Quick Start Guide
- ✓ Warranty Card
- ✓ USB Type-C Cable
- ✓ Protective Sleeve



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

# 1.3 Monitor introduction

# 1.3.1 Front view



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

| Status | Description  |
|--------|--------------|
| Blue   | ON           |
| Amber  | Standby mode |
| Dark   | OFF          |

- 2. Menu button
  - Press this button to enter the OSD menu.
- 3. Brightness
  - Adjust the energy level of brightness.
- 4. USB Type-C Port

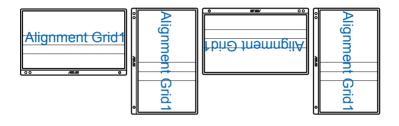
# 1.3.2 QuickFit Function

15

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.

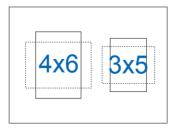
Alignment grid 1 will be rotated automatically if auto rotation is enabled.



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

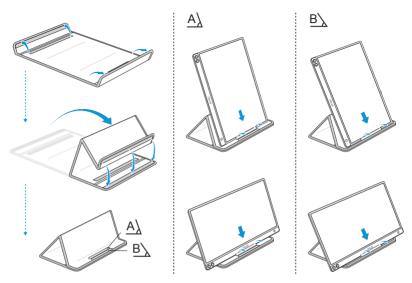


2. Photo size: Provides photographers and other users to accurately view and edit their photos in real size on the screen.

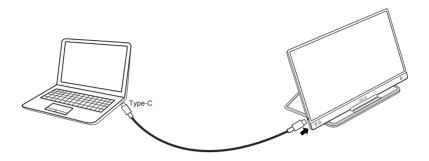


# 2.1 Monitor standing positions

You can stand up the monitor by several positions with the protective sleeve.



# 2.2 Connect the USB monitor with system



Please make sure the host system connected supports USB Type C "DisplayPort<sup>™</sup> Alt Mode " & USB Type C cable is correctly connected between USB monitor and the host system.

# 3.1 OSD (On-Screen Display) menu

# 3.1.1 How to reconfigure

| S             | Splendid        | ASUS MB166C<br>☐ sRGB Mode Type C 1920x1080@60Hz |
|---------------|-----------------|--------------------------------------------------|
| .ĕ <b>∳</b> - | Standard Mode   |                                                  |
| <u></u>       | sRGB Mode       |                                                  |
|               | Scenery Mode    |                                                  |
|               | Theater Mode    |                                                  |
| 6             | Game Mode       |                                                  |
| يعر           | Night View Mode |                                                  |
| ~             | Reading Mode    |                                                  |
| ★             | Darkroom Mode   |                                                  |
| ×             |                 |                                                  |
|               |                 |                                                  |



- 1. Press the MENU button to activate the OSD menu.
- 2. Press the ▼ button to toggle between options in the Menu. As you move from one icon to another, the option name is highlighted.
- 3. To select the highlighted item on the menu press the  $\checkmark$  button.
- 4. Press the  $\mathbf{\nabla}$  button to select the desired parameter.
- Press the ✓ button to enter the slide bar and then use the ▼ button, according to the indicators on the menu, to make your changes.
- 6. Select the <sup>□</sup> 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.

| S        | Splendid                     | ASUS MB166C<br>☐ sRGB Mode Type C 1920x1080@60Hz |
|----------|------------------------------|--------------------------------------------------|
|          | Standard Mode                |                                                  |
| <u> </u> | sRGB Mode<br>Scenery Mode    |                                                  |
| -        | Theater Mode                 |                                                  |
| ىكر      | Game Mode<br>Night View Mode |                                                  |
| ~        | Reading Mode                 |                                                  |
| ×        | Darkroom Mode                |                                                  |
| ×        |                              |                                                  |

#### ▼

- Standard Mode: This is the best choice for document editing with SPLENDID<sup>™</sup> 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<sup>™</sup> Video Intelligence Technology.
- Theater Mode: This is the best choice for movie watching with SPLENDID<sup>™</sup> Video Intelligence Technology.
- **Game Mode**: This is the best choice for game playing with SPLENDID<sup>™</sup> Video Intelligence Technology.
- Night View Mode: This is the best choice for playing dark-scene game or watching dark-scene movie with SPLENDID<sup>™</sup> 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.

| S       | Blue Light Filter | ASUS MB166C<br>☐ sRGB Mode Type C 1920x1080@60Hz |
|---------|-------------------|--------------------------------------------------|
|         | Level 0           |                                                  |
| <u></u> | Level 1           |                                                  |
|         | Level 2           |                                                  |
| ىكر     | Level 3           |                                                  |
| ~       | Level 4           |                                                  |
| ★       |                   |                                                  |
| ×       |                   |                                                  |



- 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 reduces 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.

| 1080@60Hz |
|-----------|
|           |
|           |
|           |
|           |
|           |
|           |
|           |
|           |
|           |



- 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 userconfigurable; 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.

| S             | Image          | 😐 sRGB Mode | Туре С | ASUS MB166C<br>1920x1080@60Hz |
|---------------|----------------|-------------|--------|-------------------------------|
| - <b>:∳</b> - | Sharpness      |             |        |                               |
| <u> </u>      | Trace Free     |             |        |                               |
|               | Aspect Control |             |        |                               |
| ىع            | VividPixel     |             |        |                               |
| ~             | ASCR           |             |        |                               |
|               | t)             |             |        |                               |
| *             |                |             |        |                               |
| ×             |                |             |        |                               |



- **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.



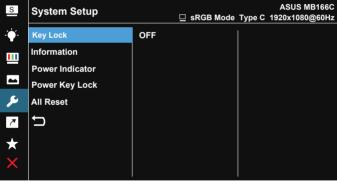
• 4:3 is only available when input source is in 4:3 format.

#### 5. System Setup

Adjusts the system configuration.

| S              | System Setup       | ASUS MB166C<br>□ sRGB Mode Type C 1920x1080@60Hz |
|----------------|--------------------|--------------------------------------------------|
| .` <b>∳</b> '- | Splendid Demo Mode |                                                  |
|                | Auto Rotation      |                                                  |
|                | GamePlus           |                                                  |
|                | QuickFit           |                                                  |
| بحر            | ECO Mode           |                                                  |
| ~              | OSD Setup          |                                                  |
| $\star$        | Language           |                                                  |
| ×              | More 🗸             |                                                  |

✓ ▼ S System Setup Ó Key Lock OFF Information Power Indicator -Power Key Lock مكر All Reset





- 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.

 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:

- Select **ON** to enter the GamePlus main menu.
- Press ► to select between Chrosshair, Timer and Display Alignment function.
- Press ✓ to confirm the function you choose. Select × to go off, and exit.



For the latest version of DisplayWidget software, please go to www.asus.com product page to download and install.

| GamePlus main menu |              |        |                   |   |
|--------------------|--------------|--------|-------------------|---|
|                    | <b>↔</b> Gam | ePlus  |                   |   |
| Crosshair          | Timer        | )      | Display Alignment |   |
| (Practive Mode)    |              |        | ×                 |   |
| GamePlus-Cros      | shair        |        |                   |   |
|                    |              |        |                   |   |
|                    | 0            |        |                   | _ |
|                    | $\oplus$     |        |                   |   |
| $\bigcirc$         | $\bigcirc$   | H<br>H | H<br>↓<br>↓<br>↓  |   |
|                    |              |        | ¢                 |   |
| ✓ ►                |              |        |                   |   |
| GamePlus-Time      | er           |        |                   | _ |
|                    | ڻ<br>ان      |        |                   |   |
| 30:                | 00 40:0      | 30 50: | 88                |   |
| <b>60</b> :        | 00 90:(      | 30     |                   |   |
| Position           | -            | -      | 5                 |   |
| $\checkmark$ >     |              |        |                   |   |

- QuickFit: See page 1-3 for details.
- **ECO Mode**: Activate the ecology mode for power saving.
- 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.
- More: Return the next page of System Setting.
- **Key Lock**: Disable all key functions. Pressing the menu button for more than five seconds to disable key lock function.
- 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.

#### 6. Shortcut

Selecting this option allows you to set shortcut key.

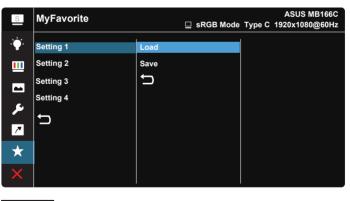
| S              | Shortcut          | ASUS MB166C<br>SRGB Mode Type C 1920x1080@60Hz |
|----------------|-------------------|------------------------------------------------|
| - <b>`∳</b> '- | Blue Light Filter |                                                |
|                | Splendid          |                                                |
|                | Brightness        |                                                |
| -              | Contrast          |                                                |
| يكر            | Auto Rotation     |                                                |
| ~              | Color Temp.       |                                                |
| +              | QuickFit          |                                                |
| ★              | GamePlus          |                                                |
| X              |                   |                                                |



• **Shortcut**: User can select from "Blue Light Filter" "Splendid", "Brightness", "Contrast", "Auto Rotation", "Color Temp.", "QuickFit", "GamePlus" and set as shortcut key.

#### 7. MyFavorite

Load/Save all settings on the monitor.





# 3.2 Specifications

| Model                   | MB166C                                                                                                                                                                      |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Panel Size              | 15.6" (16:9, 39.62cm) wide screen                                                                                                                                           |
| Resolution              | 1920 x 1080                                                                                                                                                                 |
| Brightness (Typ.)       | 250 cd/m <sup>2</sup>                                                                                                                                                       |
| Contrast (Typ.)         | 800:1                                                                                                                                                                       |
| Display Colors          | 262 K                                                                                                                                                                       |
| Digital Input           | DisplayPort™ Alt Mode for USB Type-C™                                                                                                                                       |
| Colors                  | Black                                                                                                                                                                       |
| Power Consumption       | $\leq$ 8 W                                                                                                                                                                  |
| Operating Temp.         | 0° ~ 40°                                                                                                                                                                    |
| Phys. Dimension (WxHxD) | 360.14 x225.64x11.8 mm                                                                                                                                                      |
| Box Dimension (WxHxD)   | 434 x 290 x 76 mm                                                                                                                                                           |
| Net Weight (Esti.)      | 0.8kg                                                                                                                                                                       |
| Gross Weight (Esti.)    | 1.7kg                                                                                                                                                                       |
| Regulation Approvals    | cTUVus, CB, CE, CCC, KCC, FCC, BSMI, EAC(CU),<br>RCM, VCCI, J-Moss, UkrSEPRO, RoHS, WEEE,<br>Windows 7 & 8.1 & 10 WHQL, Blue light filter, Flicker<br>free, Energy Star 8.0 |
| Voltage Rating          | 4.75-5.25V Or 8.55-9.45V Or 11.4-12.6V, 2.0A                                                                                                                                |

\*Specifications are subject to change without notice.

# 3.3 Troubleshooting (FAQ)

| Problem                                                          | Possible Solution                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power LED is not ON                                              | <ul> <li>Press the <sup>(1)</sup> button to check if the monitor is<br/>in the ON mode.</li> <li>Check if the USB Type-C cable is<br/>properly connected to the monitor and the<br/>computer.</li> </ul>                                                                                                                                                                             |
| The power LED lights amber<br>and there is no screen image       | <ul> <li>Check if the monitor and the computer are in the ON mode.</li> <li>Make sure the USB Type-C cable is properly connected between the Portable USB Monitor and the computer.</li> <li>Inspect the signal cable and make sure none of the pins are bent.</li> <li>Connect the computer with another available monitor to check if the computer is properly working.</li> </ul> |
| 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   | <ul> <li>Make sure the USB Type-C cable is properly connected between the Portable USB Monitor and the computer.</li> <li>Move electrical devices that may cause electrical interference.</li> </ul>                                                                                                                                                                                 |
| Screen image has color<br>defects (white does not look<br>white) | <ul> <li>Inspect the USB Type-C cable and make sure<br/>that none of the pins are bent.</li> </ul>                                                                                                                                                                                                                                                                                   |
| Problem                                                          | Possible Solution                                                                                                                                                                                                                                                                                                                                                                    |

| After connecting with the<br>USB Type-C source device,<br>the power LED lights<br>continuously blinking or<br>showing ASUS logo repeatly | <ul> <li>Insufficient power supply from source USB Type-C devices. Please follow below steps:</li> <li>Press the left function key, and then connect the USB Type-C cable. This operation will enable built-in safe mode. After displaying ASUS logo, please release the Blue Light Filter button. After ASUS Logo disappearing, there is "safe mode" message OSD disappears, please set background color to white image or nearly white image (*1).</li> <li>Press MENU button, main menu OSD is showing. The upper left corner of the OSD will display small red-colored font "S", indicating it is now in safe mode. Enter brightness. During the process, please note down brightness value "Y" up until MB166C re-start.(*2). For example, if brightness value shows "70" and MB166C restarts when adjusting to "71", "70" is the "Y" value to note down and is the highest brightness value for the connecting USB-C source device.</li> <li>Press MENU button, main menu OSD is showing. The upper left corner still indicate "S" as safe mode. Adjust the OSD brightness value to "Y"</li> <li>Close the OSD and press Low Blue Low Filter hot key for 5 seconds to turn off safe mode.</li> <li>Complete.</li> </ul> |
|------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

\*1: White color background will consume higher power, so it's better to use white color background to test the power limit from source USB Type-C device.

\*2: If MB166C does not re-start when adjusting to value 100, that means source USB Type-C device has sufficient power supply.

# 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              |

#### IBM Modes, Factory Preset Timing

| Resolution | Refresh Rate | Horizontal Frequency |
|------------|--------------|----------------------|
| 640x350    | 70Hz         | 31.469kHz            |
| 720x400    | 70Hz         | 31.469kHz            |

#### 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            |