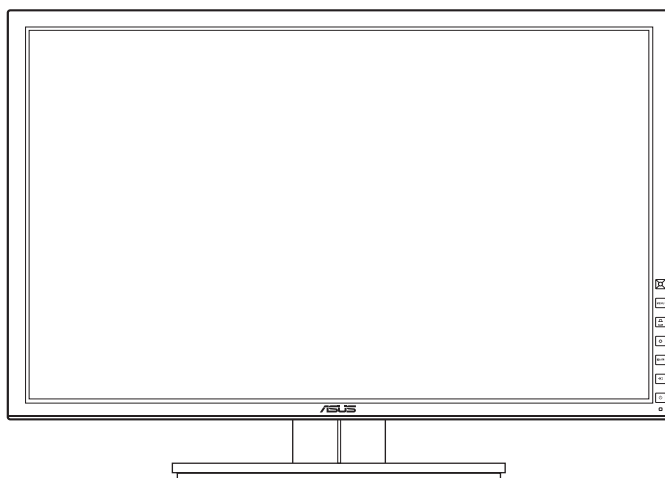




HA2402 Series LCD Monitor

User Guide



First Edition

February 2014

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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:

- 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.



The use of shielded cables for connection of the monitor to the graphics card is required to assure compliance with FCC regulations. Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.



As an Energy Star® Partner, our company has determined that this product meets the Energy Star® guidelines for energy efficiency.

Canadian Department of Communications Statement

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

This class B digital apparatus complies with Canadian ICES-003.

This Class B digital apparatus meets all requirements of the Canadian Interference - Causing Equipment Regulations.

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouiller du Canada.

Safety information

- Before setting up the monitor, carefully read all the documentation that came with the package.
- To prevent fire or shock hazard, never expose the monitor to rain or moisture.
- Never try to open the monitor cabinet. The dangerous high voltages inside the monitor may result in serious physical injury.
- If the power supply is broken, do not try to fix it by yourself. Contact a qualified service technician or your retailer.
- Before using the product, make sure all cables are correctly connected and the power cables are not damaged. If you detect any damage, contact your dealer immediately.
- Slots and openings on the back or top of the cabinet are provided for ventilation. Do not block these slots. Never place this product near or over a radiator or heat source unless proper ventilation is provided.
- The monitor should be operated only from the type of power source indicated on the label. If you are not sure of the type of power supply to your home, consult your dealer or local power company.
- Use the appropriate power plug which complies with your local power standard.
- Do not overload power strips and extension cords. Overloading can result in fire or electric shock.
- Avoid dust, humidity, and temperature extremes. Do not place the monitor in any area where it may become wet. Place the monitor on a stable surface.
- Unplug the unit during a lightning storm or if it will not be used for a long period of time. This will protect the monitor from damage due to power surges.
- Never push objects or spill liquid of any kind into the slots on the monitor cabinet.
- Accessory equipment connected to the analog and digital interfaces must be in compliance with the respective nationally harmonized IEC standards (i.e. IEC 60950 for data processing equipment, IEC 60065 for video equipment, IEC 61010-1 for laboratory equipment, and IEC 60601-1 for medical equipment.) Furthermore all configurations shall comply with the system standard IEC 60601-1-1. Anyone who connects additional equipment to the signal input part or signal output part is configuring a medical system, and is therefore, responsible that the system complies with the requirements of the system standard IEC 60601-1-1. The unit is for exclusive interconnection with IEC 60601-1 certified equipment in the patient environment and IEC 60XXX certified equipment outside of the patient environment. If in doubt, consult the technical services department or your local representative.

- This system comply with following EMC/EMI standards:

EN 60601-1-2:2007+AC:2010: Electromagnetic Compatibility

Emission: CISPR 11:2009+A1:2010, Class B

AS/NZS CISPR 11:2011

EN 61000-3-2:2006+A1:2009+A2:2009 and EN 61000-3-3:2008

Immunity: IEC 61000-4-2:2008, IEC 61000-4-3:2010, IEC 61000-4-4:2012,
IEC 61000-4-5:2005, IEC 61000-4-6:2008, IEC 61000-4-8:2009,
IEC 61000-4-11:2004

- If you encounter technical problems with the monitor, contact a qualified service technician or your retailer.
- Users must not allow SIP/SOPs and the patient to come into contact at the same time.
- Grounding reliability can only be achieved when the equipment is connected to an equivalent receptacle marked "Hospital Only" or "Hospital Grade".
- The Mains isolation is by AC power supply cord.
- Use a power cord that matches the voltage of the power outlet, which has been approved and complies with the safety standard of your particular country.
- WARNING - Do not modify this equipment without authorization of the manufacturer.
- WARNING: To avoid risk of electric shock, this equipment must only be connected to a supply mains with protective earth.
- CAUTION: Use suitable mounting apparatus to avoid risk of injury.
- Explanation of the graphical symbols:



WARNING: Dangerous voltage.



ATTENTION: consult ACCOMPANYING DOCUMENTS.



Follow operating instructions or Consult instructions for use.



STAND-BY.



Direct current.

- Classification
 - Supplied by Class I power
 - No applied parts
 - No protection against the ingress of water: IPX0
 - Mode of operation: Continuous Operation
 - The equipment is not suitable for use in the presence of a flammable anesthetic mixture with air or oxygen or nitrous oxide: Not AP or APG category



This symbol of the crossed out wheeled bin indicates that the product (electrical, electronic equipment, and mercury-containing button cell battery) should not be placed in municipal waste. Please check local regulations for disposal of electronic products.

Intended use of the system

The intended use of the model is to serve as an LCD monitor for integration with the hospital system. It is designed for general purpose for hospital environment. For displaying and viewing of images for reference. This monitor can neither be used for a life supporting system nor used in digital mammography. The use of this device does not require any direct contact with patients.

Maintenance

We suggest you to send the monitor to local dealer or service center every year for maintenance.

Care & Cleaning

- Before you lift or reposition your monitor, it is better to disconnect the cables and power cord. Follow the correct lifting techniques when positioning the monitor. When lifting or carrying the monitor, grasp the edges of the monitor. Do not lift the display by the stand or the cord.
- Cleaning. Turn your monitor off and unplug the power cord. Clean the monitor surface with a lint-free, non-abrasive cloth. Stubborn stains may be removed with a cloth dampened with clean water.
- Avoid using a cleaner containing alcohol or acetone. Use a cleaner intended for use with the monitor. Never spray cleaner directly on the screen, as it may drip inside the monitor and cause an electric shock.

The following symptoms are normal with the monitor:

- The screen may flicker during the initial use due to the nature of the fluorescent light. Turn off the Power Switch and turn it on again to make sure that the flicker disappears.
- You may find slightly uneven brightness on the screen depending on the desktop pattern you use.
- When the same image is displayed for hours, an afterimage of the previous screen may remain after switching the image. The screen will recover slowly or you can turn off the Power Switch for hours.
- When the screen becomes black or flashes, or cannot work anymore, contact your dealer or service center to fix it. Do not repair the screen by yourself!

Conventions used in this guide



WARNING: Information to prevent injury to yourself when trying to complete a task.



CAUTION: Information to prevent damage to the components when trying to complete a task.



IMPORTANT: Information that you **MUST** follow to complete a task.



NOTE: Tips and additional information to aid in completing a task.

Where to find more information

Refer to the following sources for additional information and for product and software updates.

1. **ASUS websites**

The ASUS websites worldwide provide updated information on ASUS hardware and software products. Refer to <http://www.asus.com>

2. **Optional documentation**

Your product package may include optional documentation that may have been added by your dealer. These documents are not part of the standard package.

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.

Contact Information

- ASUSTeK Computer Inc.
Address 15 Li-Te Rd., Peitou,
Taipei 11259, Taiwan
Telephone +886-2-2894-3447
Fax +886-2-2894-7798
E-mail info@asus.com.tw
Website <http://www.asus.com.tw/>
- ASUSTeK Computer Inc.
Address 800 Corporate Way,
Fremont, CA 94539, USA
Fax +1-150-608-4555
Website <http://usa.asus.com/>
- ASUSTeK Computer Inc.
Address Harkortstr. 21-23,
D-40880 Ratingen, Germany
Telephone +49-1805-010920
Website <http://www.asus.de/>
Online Contact <http://www.asus.de/sales>
- Technical Support
Telephone +886-2-3842-9911
- Technical Support
Telephone +1-812-282-2787 (English Only)
+1-905-370-2787 (French Only)
Online Support <http://support.asus.com/>
- Technical Support
Telephone +49-1805-010923
Support Fax +49-2102-959911
Online Support <http://support.asus.com/>

1.1 Welcome!

Thank you for purchasing the ASUS® LCD monitor!

The latest widescreen LCD monitor from ASUS provides a broader, brighter and crystal-clear display, plus a host of features that enhance your viewing experience.

With these features, you can enjoy the convenience and delightful visual experience that the monitor brings to you!

1.2 Package contents

Check your package for the following items:

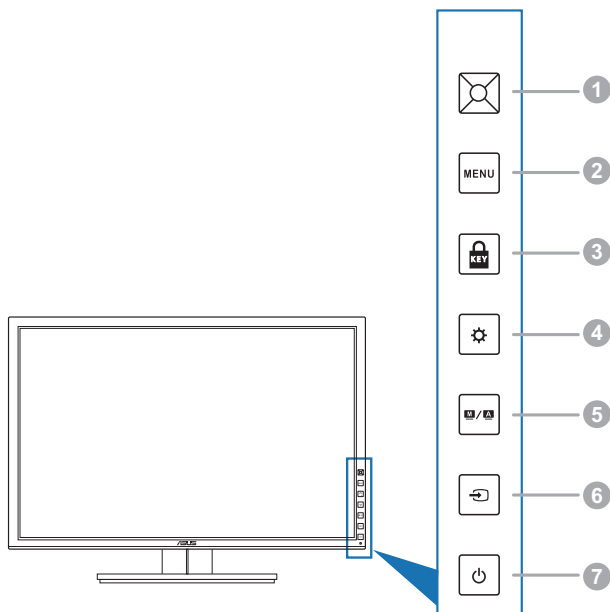
- ✓ LCD monitor
- ✓ Quick start guide
- ✓ Warranty card
- ✓ Power cord
- ✓ DVI cable
- ✓ Cable tie






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

1.3 Monitor introduction

1.3.1 Front view



1.  5-way button:
 - Enacts the selected OSD menu item.
 - Increases/Decreases values or moves your selection up/down/left/right.
2. MENU button:
 - Turns on the OSD menu.
 - Exits the OSD menu or goes back to the previous menu when the OSD menu is active.
3.  button:
 - Toggles the Key Lock function between on and off with a long press of 5 seconds.
4.  button:
 - Brightness hotkey.

5. **M/A** button:
 - Selects a desired preset mode.
 - Automatically adjusts the image to its optimized position, clock, and phase by pressing this button for 2-4 seconds (for VGA mode only).
6. **Input Select** button:
 - Selects an available input source.

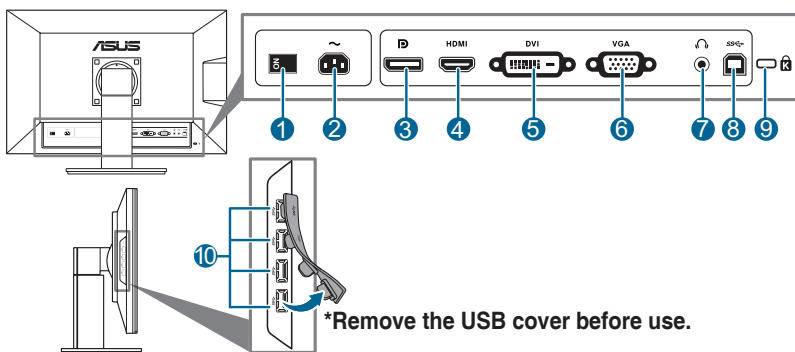


Press **Input Select** button (Input Select button) to display HDMI/DisplayPort signals after you connect HDMI/DisplayPort cable with the monitor.

7. **Power button/power indicator**
 - Turns the monitor on/off.
 - The color definition of the power indicator is as the below table.

Status	Description
White	On
White Blinking	Standby mode
Off	Off

1.3.2 Back view



Rear connectors

1. **Power switch.** Press the switch to turn on/off power.
2. **AC-IN port.** This port connects the power cord.
3. **DisplayPort.** This port is for connection for a DisplayPort compatible device.
4. **HDMI port.** This port is for connection with an HDMI compatible device.

5. **DVI port.** This 24-pin port is for PC (Personal Computer) DVI-D digital signal connection.
6. **VGA port.** This 15-pin port is for PC VGA connection.
7. **Earphone jack.**
8. **USB 3.0 upstream port.** This port is for connection with a USB upstream cable. The connection enables the USB ports on the monitor.
9. **Kensington lock slot.**
10. **USB 3.0 downstream ports.** These ports are for connection with USB devices, such as USB keyboard/mouse, USB flash drive, etc.

2.1 Detaching the arm/base (for VESA wall mount)

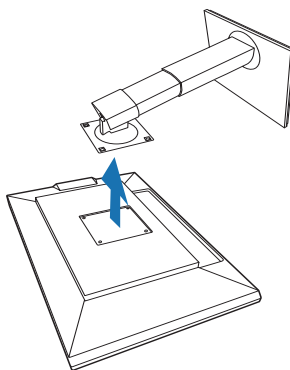
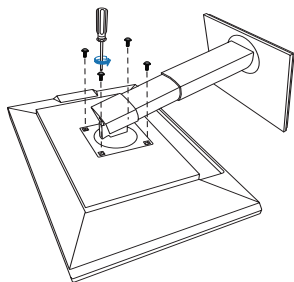
The detachable arm/base of this monitor is specially designed for VESA wall mount.

To detach the arm/base:

1. Have the front of the monitor face down on a table.
2. Use a screwdriver to remove the four screws on the arm (Figure 1), and then detach the arm/base from the monitor (Figure 2).

(Figure 1)

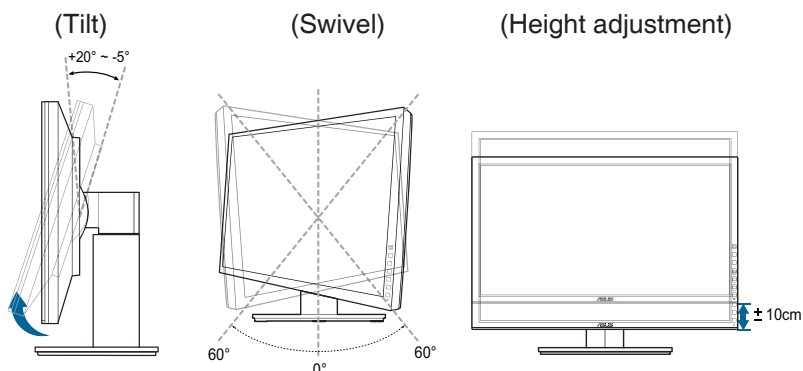
(Figure 2)



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

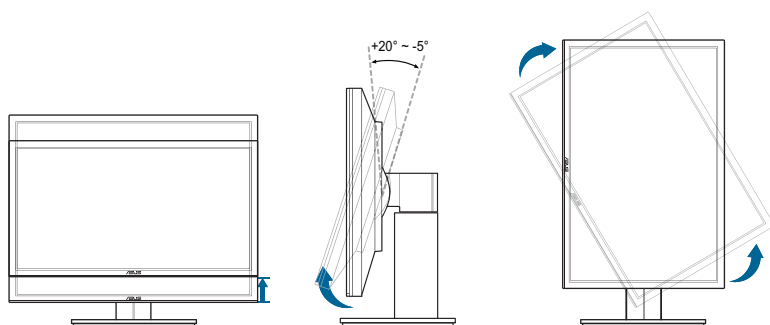
2.2 Adjusting the monitor

- For optimal viewing, we recommend that you look at the full face of the monitor, then adjust the monitor to the angle that is most comfortable for you.
- Hold the stand to prevent the monitor from falling when you change its angle.
- You can adjust the monitor's angle from $+20^{\circ}$ to -5° , and it allows 60° swivel adjustment from either left or right. You can also adjust the monitor's height within ± 10 cm.



Pivoting the monitor

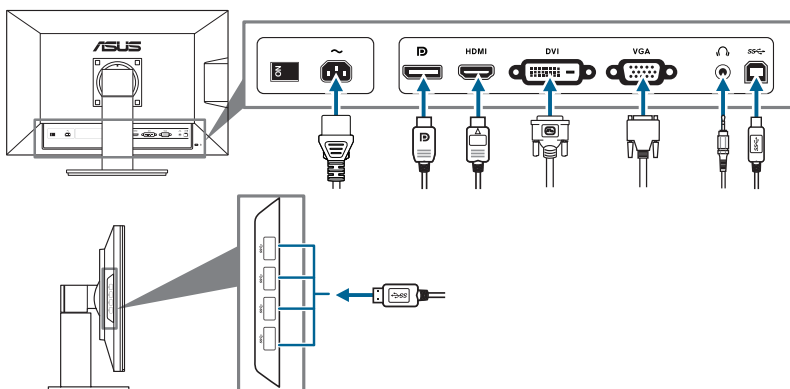
1. Lift the monitor to the highest position.
2. Tilt the monitor to its maximum angle.
3. Pivot the monitor clockwise to the angle you need.



It is normal that the monitor slightly shakes while you adjust the viewing angle.

2.3 Connecting the cables

Connect the cables as the following instructions:





- **To connect the power cord:** connect one end of the power cord securely to the monitor's AC input port, the other end to a power outlet.
- **To connect the VGA/HDMI/DVI/DisplayPort cable:**
 - a. Plug one end of the VGA/HDMI/DVI/DisplayPort cable to the monitor's VGA/HDMI/DVI/DisplayPort jack.
 - b. Connect the other end of the VGA/HDMI/DVI/DisplayPort cable to your computer's VGA/HDMI/DVI/DisplayPort jack.
 - c. Tighten the two screws to secure the VGA/DVI connector.
- **To use the earphone:** connect the end with plug type to the monitor's earphone jack when an HDMI or DisplayPort signal is fed.
- **To use the USB 3.0 ports:** Take the supplied USB 3.0 cable, and plug the smaller end (type B) of the USB upstream cable to the monitor's USB upstream port, and the larger end (type A) to your computer's USB 3.0 port. Make sure your computer is installed with the latest Windows 7 operating system. That will enable the USB ports on the monitor to work.



When these cables are connected, you can choose the desired signal from the Input Select item in the OSD menu.

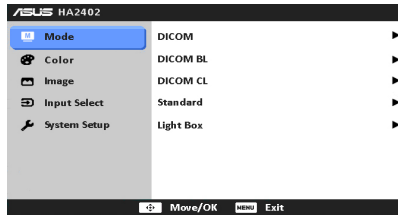
- **To disconnect the AC power cord:** Pull out the end of power cord from the monitor's AC input port.






2.4 Turning on the monitor

Press the power button . See page 1-2 for the location of the power button. The power indicator  lights up in white to show that the monitor is ON.

3.1 OSD (On-Screen Display) menu

3.1.1 How to reconfigure

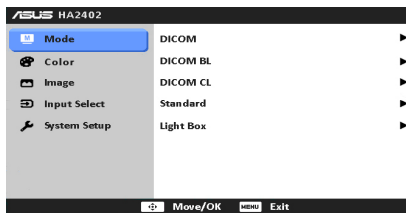


1. Press the MENU button to activate the OSD menu.
2. Move the  button up/down to navigate through the functions. Highlight the desired function and press the  button to activate it. If the function selected has a sub-menu, move the  button up/down to navigate through the sub-menu functions. Highlight the desired sub-menu function and press the  button to activate it.
3. Move the  button left/right to change the settings of the selected function.
4. To exit and save the OSD menu, press the MENU button repeatedly until the OSD menu disappears. To adjust other functions, repeat steps 1-3.

3.1.2 OSD function introduction

1. Mode

This function contains five sub-functions you can select for your preference. Each mode has the Reset selection, allowing you to maintain your setting or return to the preset mode.

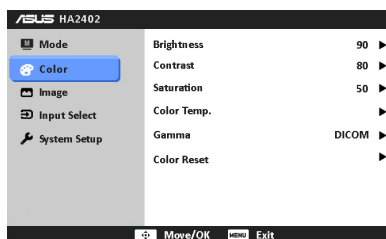


- **DICOM Mode:** compliant with DICOM standard, best choice for medical image checking.
- **DICOM BL Mode:** best choice for blue base medical image checking.
- **DICOM CL Mode:** best choice for clear base medical image checking.
- **Standard Mode:** More items are adjustable in the Color menu.
- **Light Box Mode:** best choice for physical X-ray film checking.

Function	DICOM Mode	DICOM CL Mode	DICOM BL Mode	Standard Mode	Light Box Mode
Brightness	Yes	Yes	Yes	Yes	No
Contrast	No	No	No	Yes	No
Saturation	No	No	No	Yes	No
Color Temperature	No	No	No	Yes	No
Gamma	No	No	No	Yes	No

2. Color

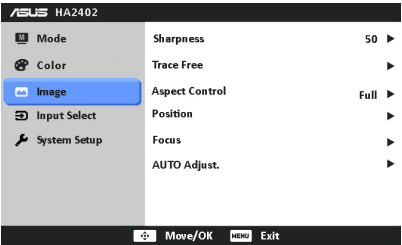
Set a desired color setting from this menu.



- **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 4 modes including 9300K, 8200K, 7500K and 6500K.
- **Gamma:** allows you to select the grayscale gamma among DICOM, 2.2, 2.0 and 1.8.
- **Color Reset:**
 - * **Current Mode Color Reset:**
Resets the color settings of current color mode to the factory default value.
 - * **All Mode Color Reset:**
Resets the color settings of all color modes to the factory default value.

3. Image

Set the image related setting from this menu.



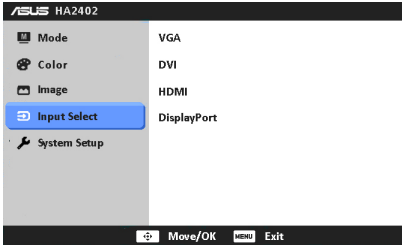
- **Sharpness:** the adjusting range is from 0 to 100.
- **Trace Free:** adjusts the response time of the monitor.
- **Aspect Control:** adjusts the aspect ratio to full, 4:3, 1:1, or OverScan (only available for the HDMI input).
- **Position:** adjusts the horizontal position (H-Position) and the vertical position (V-Position) of the image. The adjusting range is from 0 to 100.
- **Focus:** reduces Horizontal-line noise and Vertical-line noise of the image by adjusting (Phase) and (Clock) separately. The adjusting range is from 0 to 100.
- **AUTO Adjust:** Automatically adjusts the image to its optimized position, clock, and phase.



- Phase adjusts the phase of the pixel clock signal. With a wrong phase adjustment, the screen shows horizontal disturbances.
- Clock (pixel frequency) controls the number of pixels scanned by one horizontal sweep. If the frequency is not correct, the screen shows vertical stripes and the image is not proportional.

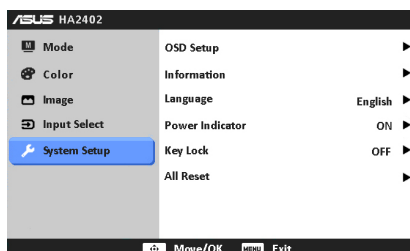
4. Input Select

In this function, you can select your desired input source.



5. System Setup

Allows you to adjust the system.






- **OSD Setup:**
 - * Adjusts the horizontal position (H-Position)/the vertical position (V-Position) of the OSD from 0 to 100.
 - * Adjusts the OSD timeout from 10 to 120 seconds.
 - * Enables or disables the DDC/CI function.
 - * Adjusts the OSD background from opaque to transparent.
 - * Adjusts the OSD rotation.
- **Information:** shows the monitor information.
- **Language:** there are 10 languages for your selection, including English, French, German, Italian, Spanish, Dutch, Russian, Simplified Chinese, Traditional Chinese and Japanese.
- **Power Indicator:** turns the power LED indicator on/off.
- **Key Lock:** To disable all function keys. Press the MENU button over 5 seconds to cancel the key lock function.
- **All Reset:** "Yes" allows you to restore the default settings.

3.2 Specifications summary

Panel Type	TFT LCD
Panel size	24.1" (16:10, 61.13 cm) wide screen
Max. Resolution	1920 x 1200
Pixel pitch	0.270 mm
Brightness (Typ.)	300 cd/m ²
Contrast Ratio (Typ.)	1000:1
Viewing angle (H/V) CR>10	178°/178°
Display colors	16.7 M
Response time	6 ms (Gray to gray)
SPLENDID™ Video Enhancement	Yes
SPLENDID™ selection	5 video preset modes (by hotkey)
Auto adjustment	Yes
Color temperature selection	4 color temperatures
Digital input	HDMI v1.4, DisplayPort V1.1a, DVI-D with HDCP
Analog input	D-Sub
Earphone jack	Yes
USB 3.0 port	Upstream x 1, Downstream x 4
Colors	Black
Power LED	White (On)/White Blinking (Standby)
Tilt	+20° ~ -5°
Swivel	+60° ~ -60°
Height Adjustment	100 mm
Kensington lock	Yes
AC input voltage	AC: 100~240V
Power consumption	Power On: < 65 W (Max.), Standby: < 0.5 W (Typ.), Power Off: 0.1 W (Switch off)
Temperature (Operating)	5°C~35°C
Temperature (Non-operating)	-20°C~+60°C
Humidity (Operating)	10%~90%RH
Humidity (Non-operating)	5%~90%RH
Altitude (Operating)	2,000 meters
Altitude (Non-operating)	12,192 meters
Dimension (W x H x D)	557.2 mm x 416.3 mm x 235 mm (machine) 681 mm x 439 mm x 292 mm (package)
Weight (Esti.)	6.9 kg (Net); 9.4 kg (Gross)
Multi-languages	10 languages (English, French, German, Italian, Spanish, Dutch, Russian, Simplified Chinese, Traditional Chinese, Japanese.)
Accessories	DVI cable, Power cord, Quick start guide, Warranty card, Cable tie
Regulation approvals	VCCI , RoHS, IEC/EN 60601-1 3rd ED, UL60601-1 3rd ED, FCC, PSE, BSMI, CE, WHQL for Windows 7 and Windows 8

*Specifications are subject to change without notice.

3.3 Troubleshooting (FAQ)

Problem	Possible Solution
Power LED is not ON	<ul style="list-style-type: none"> Press the  button to check if the monitor is in the ON mode. Check if the power cord is properly connected to the monitor and the power outlet. Check if the power switch is ON.
The power LED lights amber and there is no screen image	<ul style="list-style-type: none"> Check if the monitor and the computer are in the ON mode. Make sure the signal cable is properly connected the monitor and the computer. Inspect the signal cable and make sure none of the pins are bent. Connect the computer with another available monitor to check if the computer is properly working.
Screen image is too light or dark	<ul style="list-style-type: none"> Adjust the Contrast and Brightness settings via OSD.
Screen image is not centered or sized properly	<ul style="list-style-type: none"> Press the  button for 2-4 seconds to automatically adjust the image (for VGA mode only). Adjust the H-Position or V-Position settings via OSD.
Screen image bounces or a wave pattern is present in the image	<ul style="list-style-type: none"> Make sure the signal cable is properly connected to the monitor and the computer. Move electrical devices that may cause electrical interference.
Screen image has color defects (white does not look white)	<ul style="list-style-type: none"> Inspect the signal cable and make sure that none of the pins are bent. Perform All Reset via OSD. Adjust the R/G/B color settings or select the Color Temperature via OSD.
Screen image is blurry or fuzzy	<ul style="list-style-type: none"> Press the  button for 2-4 seconds to automatically adjust the image (for VGA mode only). Adjust the Phase and Clock settings via OSD.
No sound or sound is low	<ul style="list-style-type: none"> Ensure that the HDMI cable is properly connected to the monitor and the computer. Ensure that the computer sound card driver is properly installed and activated.

3.4 Supported operating modes

Resolution Frequency	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Pixel (MHz)
640x480	31.47(N)	59.94(N)	25.18
800x600	35.16(P)	56.25(P)	36
800x600	37.88(P)	60.32(P)	40
1024x768	48.36(N)	60.00(N)	65
1280x960	60.00(P)	60.00(N)	108
1280x1024	63.98(P)	60.02(P)	108
1366x768	47.712(P)	59.79(P)	85.5
1440x900	55.94(N)	59.89(P)	106.5
1600x1200	75.00(P)	60.00(P)	162
1680x1050	65.29(N)	60.00(P)	146.25
1920x1080	67.5(P)	60.00(P)	148.5
1920x1200 (Reduced Blanking)	74.038(P)	59.95(N)	154

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

* This monitor supports full HD (480p, 576p, 720p, 1080i/p) video content from game consoles, DVD players and other consumer video devices via HDMI or DisplayPort.

