

# **Optix Series**

**LCD Monitor** 

Optix AG321CR (3DB4)
Optix AG321CQR (3DB4)

## **Contents**

Getting Started3
Package Contents3
Installing the Monitor Stand4
Adjusting the Monitor5
Monitor Overview6
Connecting the Monitor to PC9
OSD Setup
Navi Key11
Hot Key11
OSD Menus
Gaming13
Professional15
Image
Input Source
PIP/ PBP (optional)
Navi Key19
Setting19
Specifications
Preset Display Modes
Troubleshooting
Safety Instructions
TÜV Certification
Regulatory Notices

#### Revision

V1.0, 2020/10

## **Getting Started**

This chapter provides you with the information on hardware setup procedures. While connecting devices, be careful in holding the devices and use a grounded wrist strap to avoid static electricity.

## **Package Contents**

Monitor	Optix AG321CR / AG321CQR (3DB4)		
	Quick Start Guide		
Documentation	Warranty Card		
	Registration Card		
	Stand with Screw(s)		
Accessories	Stand Base with Screw(s)		
Accessories	Power Cord		
	Power Adapter		
Cables	DisplayPort Cable (Optional)		
Cables	USB Upstream Cable (Optional)		



## 1mportant

- Contact your place of purchase or local distributor if any of the items is damaged or missing.
- Package contents may vary by country.

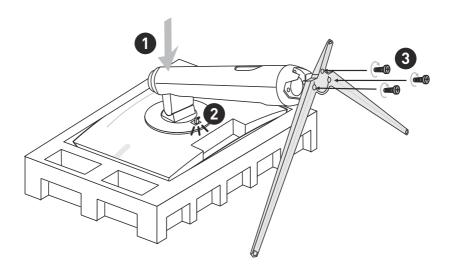
## Installing the Monitor Stand

- 1. Leave the monitor in its protective foam packaging. Align the latches of the stand to the monitor groove.
- 2. When the stand is secured to the monitor, a click sound will be heard.
- **3.** Connect the base to the stand and tighten the base screw to secure the base.
- 4. Make sure the stand assembly is properly installed before setting the monitor upright.



#### **Important**

- Place the monitor on a soft, protected surface to avoid scratching the display panel.
- Do not use any sharp objects on the panel.
- The groove for installing the stand bracket can also be used for wall mount. Please contact your dealer for proper wall mount kit.



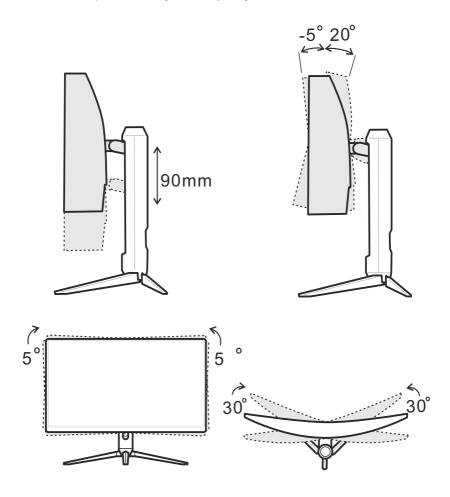
## **Adjusting the Monitor**

This monitor is designed to maximize your viewing comfort with its adjustment capabilities.



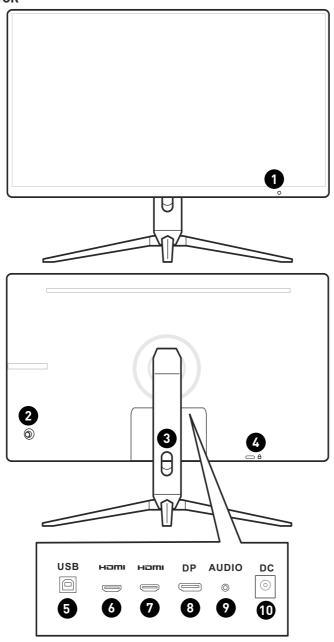
## ) Important

- Avoid touching the display panel when adjusting the monitor.
- Please slightly tilt the monitor backwards before pivoting it.
- The reserved pivot  $5^{\circ}$  is designed for adjusting the level imbalance of some tables.

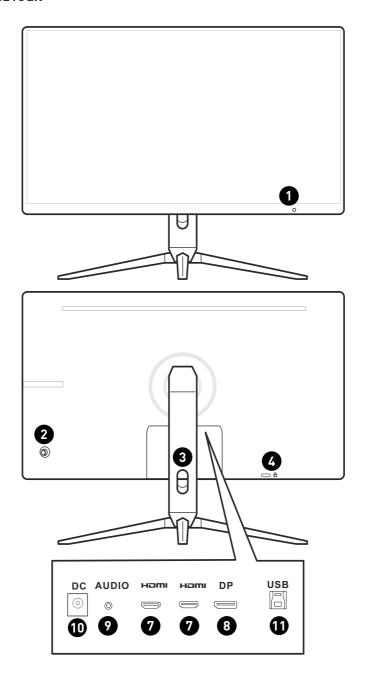


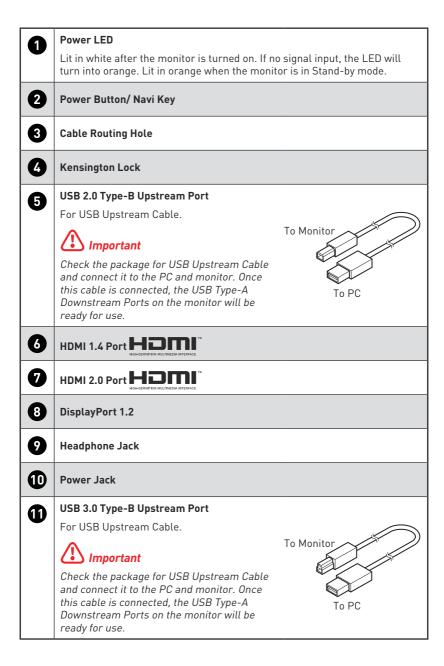
### **Monitor Overview**

#### AG321CR



#### AG321CQR

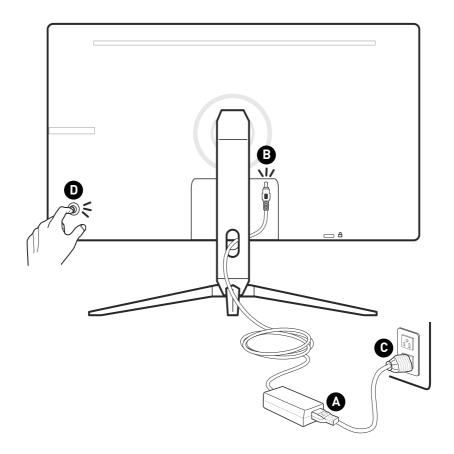




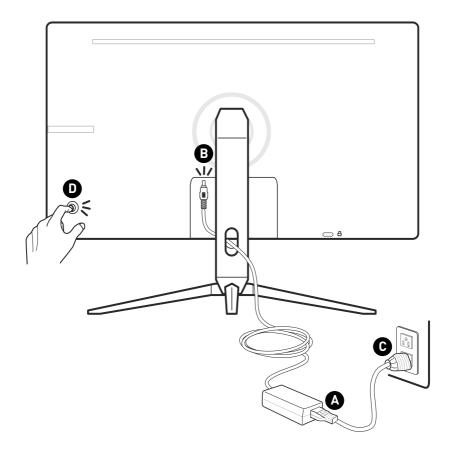
## Connecting the Monitor to PC

- 1. Turn off your computer.
- 2. Connect the video cable from the monitor to your computer.
- 3. Assemble the monitor power adapter & power cord. (Figure A)
- **4.** Connect the power adapter to the monitor power jack. (Figure B)
- **5.** Plug the power cord into the electrical outlet. (Figure C)
- **6.** Turn on the monitor. (Figure D)
- 7. Power on the computer and the monitor will auto detect the signal source.

#### AG321CR



### AG321CQR



## **OSD Setup**

This chapter provides you with essential information on OSD Setup.

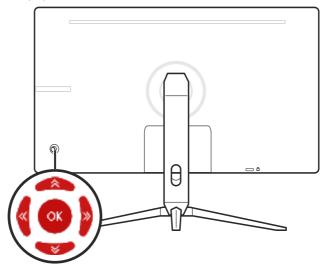


#### \ Important

All information is subject to change without prior notice.

### **Navi Key**

The monitor comes with a Navi Key, a multi-directional control that helps navigate the On-Screen Display (OSD) menu.



#### Up/Down/Left/Right:

- selecting function menus and items
- · adjusting function values
- entering into/exiting from function menus

#### Press (OK):

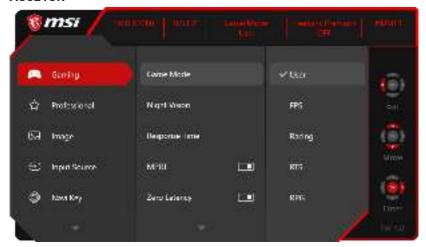
- launching the On-Screen Display (OSD)
- entering submenus
- · confirming a selection or setting

#### **Hot Key**

- Users may enter into Game Mode, Screen Assistance, Alarm Clock and Input Source function menus by moving the Navi Key up, down, left or right when the OSD menu is inactive.
- Users may customize their own Hot Keys to enter into different function menus.

## **OSD Menus**

#### AG321CR



#### AG321CQR



## **Gaming**

1st Level Menu	2nd/3rd Level Menu	Description
Game Mode	User	All items can be adjusted by users.
	FPS	Use Up or Down Button to select and preview mode effects.
	Racing	Press the OK Button to confirm and
	RTS	apply your mode type.
	RPG	
Night Vision	OFF	This function optimizes background
	Normal	brightness and is recommended for FPS games.
	Strong	
	Strongest	
	A.I.	
Response Time	Normal	Users can adjust Response Time in any mode.
	Fast	Response Time will be grayed out
	Fastest	while MPRT is enabled.  Response Time have to set to Fast after MPRT is disabled
MDDT	055	artor in the disabled.
MPRT	OFF	Brightness cannot be adjusted when MPRT is set to ON.
	ON	When Screen Refresh Rate is lower than 85 Hz, MPRT cannot be enabled.
		MPRT and HDCR cannot be enabled simultaneously.
		MPRT and FreeSync cannot be enabled simultaneously.
		Response time will be grayed out while MPRT is enabled.
		MPRT has to be disabled while FreeSync Premium/Adaptive-Sync is set to ON.
Zero Latency	OFF	Users can adjust this item in any
	ON	mode , any input source , any resolution and any screen refresh rate.
		While FreeSync is enabled, Zero Latency have to set to ON.

1st Level Menu	2nd/3rd L	evel Menu	Description
Refresh Rate		Users can adjust Refresh Rate in any	
		Right Top	mode.  • Default Refresh Rate Location is
		Left Bottom	Left Top. Location is adjustable in OSD Menu. Press the OK Button to
		Right Bottom	confirm and apply your Refresh Rate Location.  • This monitor follows and works at the
		Customize	Operating System's preset Screen Refresh Rate.
	OFF		Neiresii Nate.
	ON		
Alarm Clock	Location	Left Top	Users can adjust Alarm Clock in any
		Right Top	mode.  • After setting the time, press the OK
	Left Bottom	Button to activate the timer.  • Default Alarm Clock Location is	
		Right	Left Top. Users can select their own location.
		Customize	
	OFF		
	15:00	00:01 ~	
	30:00	99:59	
	45:00		
	60:00		
Screen	None	,	Users can adjust Screen Assistance
Assistance	Icon	9,	in any mode.  • Screen Assistance default is None.
	Position		Screen Assistance delauti is None.
	Reset		

1st Level Menu	2nd/3rd Level Menu	Description
FreeSync OFF Premium	FreeSync Premium/ Adaptive-Sync prevents screen tearing.	
	ON	DisplayPort or HDMI default is OFF and can be adjusted ON/OFF in any mode, any resolution, any input source and any screen refresh rate.
		MPRT will be disabled if FreeSync Premium/ Adaptive-Sync is enabled.

## **Professional**

1st Level Menu	2nd Level Menu	Description
Pro Mode	User	Default mode is User.
	Anti-Blue	All items can be adjusted by users.
	Movie	Use Up or Down Button to select and preview mode effects.
	Office	Press the OK Button to confirm and apply
	sRGB	your mode type.
Low Blue Light	OFF	Low Blue Light protects your eyes against
	ON	blue light. When enabled, Low Blue Light adjusts the screen color temperature to a more yellow glow.
		Users can adjust Low Blue Light in any mode.
		When Pro Mode is set to Anti-Blue, it is mandatory to enable Low Blue Light.
HDCR	OFF	Users can adjust HDCR in any mode.
	ON	HDCR enhances image quality by increasing the contrast of images.
		When HDCR is set to ON, Brightness will be grayed out.
		HDCR and MPRT cannot be enabled simultaneously.

1st Level Menu	2nd Level Menu	Description
MPRT	T OFF ON	Brightness cannot be adjusted when MPR     is set to ON
		When Screen Refresh Rate is lower than 85 Hz, MPRT cannot be enabled.
		MPRT and HDCR cannot be enabled simultaneously.
		MPRT and FreeSync cannot be enabled simultaneously.
		Response time will be grayed out while MPRT is enabled.
		MPRT has to be disabled while FreeSync Premium/Adaptive-Sync is set to ON.
Image		Image Enhancement enhances image
Enhancement	Weak	edges to improve their acutance.  • Users can adjust Image Enhancement in
	Medium	any mode.
	Strong	
	Strongest	

## **Image**

1st Level Menu	2nd/3rd Level Menu	Description
Brightness	0-100	Users can adjust Brightness in User, RTS, RPG and Anti-Blue mode.
		Brightness will be grayed out when MPRT or HDCR are enabled.
Contrast	0-100	Users can adjust Contrast in any mode.
Sharpness	0-5	Users can adjust Sharpness in any mode.
		Sharpness improves clarity and details of images.

1st Level Menu	2nd/3rd Level Menu		Description
Color	Cool		Color Temperature default is     Normal.
Temperature	Normal		Use Up or Down Button to select
	Warm		and preview mode effects.
	Customization	R (0-100)	Press the OK Button to confirm and apply your mode type.
		G (0-100)	Users can adjust Color
		B (0-100)	Temperature in Customization mode.
Screen Size	Auto 4:3		Users can adjust Screen Size in
			any mode, any resolution and any screen refresh rate.
	16:9		Default is Auto.

## **Input Source**

1st Level Menu	2nd Level Menu	Description
HDMI1		Users can adjust Input Source in any mode.
HDMI2		
DP		
Auto Scan	OFF	Users can use the Navi Key to select Input
	ON	Source at below status:
UN	While "Auto Scan" is set to "OFF" with the monitor at power saving mode;	
		While "No Signal" message box is shown on the monitor.

## PIP/ PBP (optional)

1st Level Menu	2nd/3rd Leve	l Menu	Description
OFF			PIP (Picture in Picture) allows
PIP	Source	HDMI1	users to simultaneously display multiple video sources on one
		HDMI2	screen. One program is displayed on the full screen at the same
		DP	time as one or more other programs are displayed in inset
	PIP Size	Small	windows.
		Medium	PBP (Picture by Picture) is a similar feature that displays two
		Large	input sources side-by-side on the
	Location	Left Top	PIP/PBP default is OFF.
		Right Top	Display Switch allows users to
		Left Bottom	switch between primary and secondary input sources.
		Right Bottom	While User choose Audio Switch the Audio Source will be change
		Customize	to Digital .  • If there is only one signal input,
	Display Switch	ch the Display Switch and Au	
	Audio	HDMI1	<ul><li>Switch will be grayed out.</li><li>While Display Switch is selected</li></ul>
	Switch	HDMI2	in PBPx3 or PBPx4, the source will exchange clockwise.
		DP	witt exchange clockwise.
PBP (X2)	Source 1	HDMI1	
	Source 2	HDMI2	
	Source 2	DP	
	Display Switch		
	Audio	HDMI1	
	Switch	HDMI2	
		DP	

## Navi Key

1st Level Menu	2nd Level Menu	Description
Up / Down / Left	OFF	• Up Button default is Game Mode.
/ Right	Brightness	Down Button default is Screen Assistance.
	Game Mode	Left Button default is Alarm Clock.      Dight Button default is Input Source.
-	Screen Assistance	<ul> <li>Right Button default is Input Source.</li> <li>All Navi Key items can be adjusted via OSD Menus.</li> </ul>
	Alarm Clock	
	Input Source	
	PIP/PBP Mode (optional)	
	Refresh Rate	
	Info. On Screen	
	Night Vision	

## Setting

1st Level Menu	2nd Level Menu	Description
Language	繁體中文	Language factory default is English.
	English	Users have to press the OK Button to
	Français	confirm and apply the Language setting.
	Deutsch	Language is an independent setting.  Users' own language setting will override
	Italiano	the factory default. When users set Reset
	Español	to Yes, Language will not be changed.
	한국어	
	日本語	
	Русский	
	Português	
	简体中文	
	Bahasa Indonesia	
	हिन्दी	
	Türkçe	
	(More languages coming soon)	

1st Level Menu	2nd Level Menu	Description				
Transparency	0~5	Users can adjust Transparency in any mode.				
OSD Time Out	5~30	Users can adjust OSD Time Out in any mode.				
RGB LED	OFF	Users can adjust RGB LED to ON or OFF.				
	ON	Default is ON.				
Power Button	OFF	When set to OFF, users can press the power button to turn off the monitor.				
	Standby	When set to Standby, users can press the power button to turn off the panel and backlight.				
Info. On Screen	OFF	The information of the monitor status will				
	ON	<ul> <li>be shown on the right side of the screen.</li> <li>Users can enable or disable the Info. On Screen. Default is OFF.</li> </ul>				
HDMI CEC	OFF	Default is OFF.				
	ON	HDMI CEC (Consumer Electronics Control) supports Sony PlayStation®, Nintendo® Switch™, and various audio-visual devices that are CEC-capable.				
		• If HDMI CEC is set to ON:				
		The monitor will automatically power on when the CEC device is turned on.				
		The CEC device will enter power saving mode when the monitor is turned off.				
		<ul> <li>When Sony PlayStation® or Nintendo® Switch™ is connected, Game and Pro Mode will be automatically set to User mode (Default) and can be adjusted to users' preferred modes later.</li> </ul>				
Reset	YES	Users can Reset and restore settings to				
	NO	original OSD Default in any mode.				

## **Specifications**

Model	Optix AG321CR / AG321CQR (3DB4)		
Size	31.5 inch		
Curvature	1500R		
Panel Type	VA		
Resolution	1920 x 1080 @165Hz (AG321CR) 2560 x 1440 @165Hz (AG321CQR)		
Aspect Ratio	16:9		
Brightness	250nits (Typ.)		
Contrast Ratio	4000:1 (Typ.) (AG321CR) 3000:1 (Typ.) (AG321CQR)		
Refresh Rate 165Hz			
Response Time 1MS (MPRT)			
Input Interface	(AG321CR)  • HDMI 1.4 Port x1  • HDMI 2.0 Port x1  • DisplayPort 1.2 x1  • USB 2.0 Type-B Upstream Port x1 (AG321CQR)  • HDMI 2.0 Port x2  • DisplayPort 1.2 x1  • USB 3.0 Type-B Upstream Port x1		
1/0	<ul> <li>(AG321CR)</li> <li>Headphone Jack x1</li> <li>USB 2.0 Type-B Upstream Port x1</li> <li>(AG321CQR)</li> <li>Headphone Jack x1</li> <li>USB 3.0 Type-B Upstream Port x1</li> </ul>		
View Angles	178°(H) , 178°(V)		
DCI-P3*/ sRGB	120% / 95% (AG321CR) 124% / 98% (AG321CQR)		

Model		Optix AG321CR / AG321CQR (3DB4)		
Surface Treatment		Anti-Glare Type, 25% (AG321CR) Anti-Glare Type, 40% (AG321CQR)		
Display Colors		16.7M (AG321CR) 1.07B (AG321CQR)		
Power Adapte	r Specs	Model: ADS-65HI-19A-1 19065E		
Power Input		100~240Vac, 50/60Hz, 1.5A		
Power Output		19V <del></del> 3.42A		
Adjustment (Tilt)		-5° ~ 20°		
Adjustment (Height)		0 ~ 90mm		
Adjustment (S	wivel)	-30° ~ 30°		
Adjustment (P	ivot)	-5° ~ 5°		
Kensington Lo	ck	Yes		
		• Plate Type: 75 x 75 mm		
VECA Manuation		• Screw Type: M4 x 8 mm		
VESA Mountin	9	Thread Diameter: 4 mm Thread Pitch: 0.7 mm		
		Thread Length: 10 mm		
Dimension (W	x H x D)	710.0 x 465.6 x 286.9 mm		
Weight		6.59 Kg (net) / 8.98 Kg (gross)		
		Temperature: 0°C to 40°C		
	Operating	Humidity: 20% to 90%, non-condensing		
Environment		• Altitude: 0 ~ 5000m		
		• Temperature: -20°C to 60°C		
	Storage	• Humidity: 10% to 90%, non-condensing		

<sup>\*</sup> Based on CIE1976 test standards.

## **Preset Display Modes**

Chandard	Resolution		Optix AG321CR (3DB4)		
Standard			HDMI1	HDMI2	DP
VGA	640x480	@60Hz	٧	V	٧
		@72Hz	٧	V	V
		@75Hz	٧	V	V
Dos-Mode	720x480	@60Hz	٧	V	V
	720x576	@50Hz	٧	٧	٧
SVGA	800x600	@56Hz	٧	٧	٧
		@60Hz	٧	V	٧
		@72Hz	V	V	V
		@75Hz	V	V	V
XVGA	1024x768	@60Hz	٧	٧	٧
		@70Hz	٧	٧	٧
		@75Hz	٧	V	٧
SXVGA	1280x1024	@60Hz	٧	V	٧
		@75Hz	٧	V	٧
WXGA+	1440x900	@60Hz	٧	V	٧
WSXGA+	1680x1050	@60Hz	V	V	V
Full HD	1920x1080	@60Hz	V	V	V
		@120Hz	٧	V	٧
		@144Hz	٧	٧	٧
		@165Hz	Х	V	٧
Video Timing Resolution	480P		V	V	V
	576P		V	V	V
	720P		V	V	٧
	1080P		V	V	V
	1080P @120Hz		V	V	V

	Resolution		Optix AG321CQR (3DB4)		
Standard			HDMI1	HDMI2	DP
VGA	640x480	@60Hz	V	٧	V
		@75Hz	V	V	V
Dos-Mode	720x400	@70Hz	V	V	V
	720x480	@60Hz	V	V	V
	720x576	@50Hz	V	V	V
SVGA	800x600	@60Hz	V	V	V
		@72Hz	V	V	V
		@75Hz	V	V	V
XVGA	1024x768	@60Hz	V	V	V
		@75Hz	V	V	V
SXVGA	1280x720	@50Hz	V	V	V
	1280x1024	@60Hz	V	V	V
		@75Hz	V	V	V
		@120Hz	V	V	V
WXGA+	1440x900	@60Hz	V	V	V
		@120Hz	V	V	V
WSXGA+	1680x1050	@60Hz	V	V	V
		@120Hz	V	V	V
Speical EDID for PBP	1280x1440	@60Hz	V	V	V
Full HD	1920x1080	@50Hz	V	V	V
		@60Hz	V	V	V
		@120Hz	V	V	V
QHD	2560x1440	@60Hz	V	V	V
		@120Hz	V	V	V
		@144Hz	V	V	V
		@165Hz	Х	Х	V
Video Timing Resolution	480P		V	V	V
	576P		V	V	V
	720P		V	V	V
	1080P		V	V	V
	1080P @120Hz		V	V	V
	2160P @30Hz		V	V	V
	2160P @60Hz		V	V	V

## **Troubleshooting**

#### The power LED is off.

- Press the monitor power button again.
- Check if the monitor power cable is properly connected.

#### No image.

- Check if the computer graphics card is properly installed.
- Check if the computer and monitor are connected to electrical outlets and are turned on.
- Check if the monitor signal cable is properly connected.
- The computer may be in Standby mode. Press any key to activate the monitor.

#### The screen image is not properly sized or centered.

• Refer to Preset Display Modes to set the computer to a setting suitable for the monitor to display.

#### No Plug & Play.

- Check if the monitor power cable is properly connected.
- Check if the monitor signal cable is properly connected.
- Check if the computer and graphics card are Plug & Play compatible.

#### The icons, font or screen are fuzzy, blurry or have color problems.

- · Avoid using any video extension cables.
- · Adjust brightness and contrast.
- Adjust RGB color or tune color temperature.
- Check if the monitor signal cable is properly connected.
- Check for bent pins on the signal cable connector.

#### The monitor starts flickering or shows waves.

- Change the refresh rate to match the capabilities of your monitor.
- Update your graphics card drivers.
- Keep the monitor away from electrical devices that may cause electromagnetic interference (EMI).

## Safety Instructions

- Read the safety instructions carefully and thoroughly.
- All cautions and warnings on the device or user's manual should be noted.
- Refer servicing to qualified personnel only.
- Keep the User's Guide that comes with the package for future reference.
- To prevent fire or shock hazard, keep this device away from humidity and high temperature.
- Lay this device on a reliable flat surface before setting it up.
- Make sure that the power voltage is within its safety range and has been adjusted properly to the value of 100~240V before connecting the device to the power outlet. Do not disable the protective earth pin from the plug. The device must be connected to an earthed mains socket-outlet.
- Always disconnect the power cord or switch the wall socket off if the device would be left unused for a certain time to achieve zero energy consumption.
- The ventilator on the device is used for air convection and to prevent the device from overheating. Do not cover the ventilator.
- Do not leave the device in an unconditioned environment with a storage temperature above 60°C or below -20°C, which may damage the device.
- NOTE: The maximum operating temperature is around 40°C.
- When cleaning the device, be sure to remove the power plug. Use a piece of soft cloth rather than industrial chemical to clean the device. Never pour any liquid into the opening; that could damage the device or cause electric shock.
- Place the power cord in a way that people are unlikely to step on it. Do not place anything on the power cord.
- Always keep strong magnetic or electrical objects away from the device.
- If any of the following situations arises, get the device checked by service personnel:
  - The power cord or plug is damaged.
  - Liquid has penetrated into the device.
  - The device has been exposed to moisture.
  - The device does not work well or you can not get it work according to user's manual.
  - The device has dropped and damaged.
  - The device has obvious sign of breakage.
- To prevent the monitor from tipping over, secure the monitor to a desk, wall or fixed object with a anti-tip fastener that helps to properly support the monitor and keep it safe in place.



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

## **TÜV Certification**

## TÜV Rheinland Low Blue Light Certification

Blue light has been shown to cause eye fatigue and discomfort. MSI now offers monitors with TÜV Rheinland Low Blue Light certification to ensure users' eye comfort and well-being. Please follow the instructions below to reduce the symptoms from extended exposure to the screen and blue light.



- Place the screen 20 28 inches (50 70 cm) away from your eyes and a little below eve level.
- Consciously blinking the eyes every now and then will help to reduce eye strain after extended screen time.
- Take breaks for 20 minutes every 2 hours.
- Look away from the screen and gaze at a distant object for at least 20 seconds during breaks.
- Make stretches to relieve body fatigue or pain during breaks.
- Use the Reader/Anti-Blue mode or turn on the optional Low Blue Light function.

#### TÜV Rheinland Flicker Free Certification

• TÜV Rheinland has tested this product to ascertain whether the display produces visible and invisible flicker for the human eye and therefore strains the eyes of users.



- TÜV Rheinland has defined a catalogue of tests, which sets out minimum standards at various frequency ranges. The test catalogue is based on internationally applicable standards or standards common within the industry and exceeds these requirements.
- The product has been tested in the laboratory according to these criteria.
- The keyword "Flicker Free" confirms that the device has no visible and invisible flicker defined in this standard within the range of 0 - 3000 Hz under various brightness settings.
- The display will not support Flicker Free when Anti Motion Blur/MPRT is enabled. (The availability of Anti Motion Blur/MPRT varies by products.)

## Regulatory Notices

#### **CE 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 published under Directives of Official Journal of the European Union.

### FCC-B Radio Frequency Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may



cause harmful interference to radio communications. However, there is no quarantee 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 measures listed below:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/television technician for help.

#### Notice 1

The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

#### Notice 2

Shielded interface cables and AC power cord, if any, must be used in order to comply with the emission limits.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1. This device may not cause harmful interference, and
- 2. This device must accept any interference received, including interference that may cause undesired operation.

#### MSI Computer Corp.

901 Canada Court, City of Industry, CA 91748, USA [626] 913-0828 www.msi.com

#### WFFF Statement

Under the European Union ("EU") Directive on Waste Electrical and Electronic Equipment, Directive 2012/19/EU, products of "electrical and electronic equipment" cannot be discarded as municipal waste anymore and manufacturers of covered electronic equipment will be obligated to take back such products at the end of their useful life.



#### Chemical Substances Information

In compliance with chemical substances regulations, such as the EU REACH Regulation (Regulation EC No. 1907/2006 of the European Parliament and the Council), MSI provides the information of chemical substances in products at:

https://storage-asset.msi.com/html/popup/csr/evmtprtt\_pcm.html

#### RoHS Statement

#### Japan JIS C 0950 Material Declaration

A Japanese regulatory requirement, defined by specification JIS C 0950, mandates that manufacturers provide material declarations for certain categories of electronic products offered for sale after July 1, 2006.

https://storage-asset.msi.com/html/popup/csr/cemm jp.html

#### India RoHS

This product complies with the "India E-waste (Management and Handling) Rule 2011" and prohibits use of lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers in concentrations exceeding 0.1 weight % and 0.01 weight % for cadmium, except for the exemptions set in Schedule 2 of the Rule.

#### Turkey EEE Regulation

Conforms to the EEE Regulations of the Republic Of Turkey.

#### Ukraine Restriction of Hazardous Substances

The equipment complies with requirements of the Technical Regulation, approved by the Resolution of Cabinet of Ministry of Ukraine as of December 3, 2008 № 1057, in terms of restrictions for the use of certain dangerous substances in electrical and electronic equipment.

#### Vietnam RoHS

As from December 1, 2012, all products manufactured by MSI comply with Circular 30/2011/TT-BCT temporarily regulating the permitted limits for a number of hazardous substances in electronic and electric products.

#### Green Product Features

- Reduced energy consumption during use and stand-by
- Limited use of substances harmful to the environment and health
- Easily dismantled and recycled
- Reduced use of natural resources by encouraging recycling
- · Extended product lifetime through easy upgrades
- Reduced solid waste production through take-back policy

### **Environmental Policy**

- The product has been designed to enable proper reuse of parts and recycling and should not be thrown away at its end of life.
- Users should contact the local authorized point of collection for recycling and disposing of their end-of-life products.



- · Visit the MSI website and locate a nearby distributor for further recycling information.
- Users may also reach us at gpcontdev@msi.com for information regarding proper disposal, take-back, recycling, and disassembly of MSI products.

### Warning!

Overuse of screens is likely to affect eyesight.

#### Recommendations:

- 1. Take a 10-minute break for every 30 minutes of screen time.
- 2. Children under 2 years of age should have no screen time. For children aged 2 years and over, screen time should be limited to less than one hour per day.

## Copyright and Trademarks Notice

Copyright © Micro-Star Int'l Co., Ltd. All rights reserved. The MSI logo used is a registered trademark of Micro-Star Int'l Co., Ltd. All other marks and names mentioned may be trademarks of their respective owners. No warranty as to accuracy or completeness is expressed or implied. MSI reserves the right to make changes to this document without prior notice.

## **Technical Support**

If a problem arises with your product and no solution can be obtained from the user's manual, please contact your place of purchase or local distributor. Alternatively, please visit https://www.msi.com/support/ for further guidance.