



Optix Series

LCD Monitor

Optix MPG321UR-QD (3DC0) Optix MPG321QRF-QD (3DB8)

User Guide

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Revision

V1.0, 2021/09

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

	Optix MPG321UR-QD		
Monitor	Optix MPG321QRF-QD		
	Optix MF0321QNF-QD		
Documentation	Quick Start Guide		
Bocamentation	Registration Card		
	Stand with Screw(s)		
	Stand Base with Screw(s)		
Accessories	Screw(s) for Wall Mount Bracket(s)		
	Power Cord		
	Mouse Bungee (Optional)		
	HDMI Cable (Optional)		
	DisplayPort Cable (Optional)		
0.11.	USB Type-C Cable (Optional)		
Cables	Y-Type Audio Cable (for audio jacks on the monitor) (Optional)		
	USB Upstream Cable (for USB Type-B Upstream Port) (Optional)		



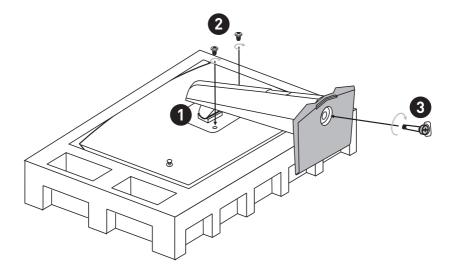
- Contact your place of purchase or local distributor if any of the items is damaged or missing.
- Package contents may vary by country.
- The included power cord is exclusively for this monitor and should not be used with other products.

Installing the Monitor Stand

- 1. Leave the monitor in its protective foam packaging. Align the stand bracket to the monitor groove.
- 2. Tighten the stand bracket with screws.
- **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.



- 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.



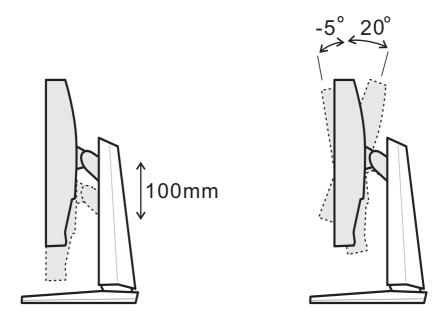
Adjusting the Monitor

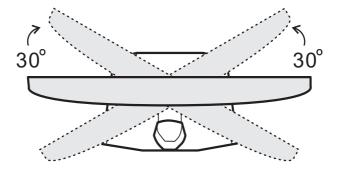
This monitor is designed to maximize your viewing comfort with its adjustment capabilities.



/! Important

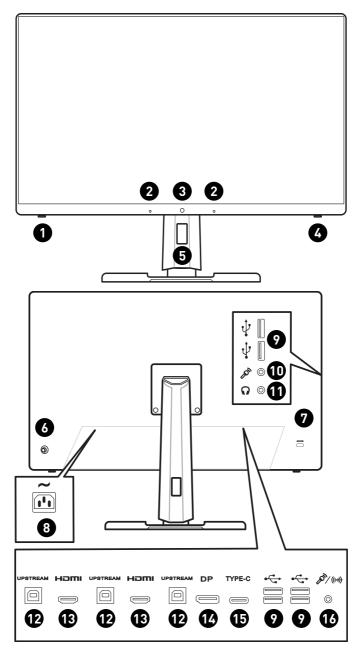
- Avoid touching the display panel when adjusting the monitor.
- Please slightly tilt the monitor backwards before pivoting it.



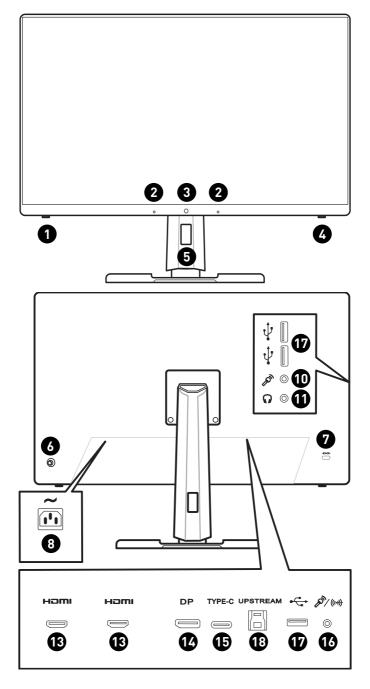


Monitor Overview

Optix MPG321UR-QD



Optix MPG321QRF-QD

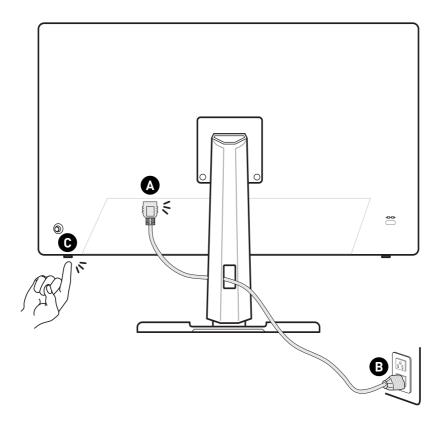


0	Macro Key
	To activate OSD Application.
2	Microphone
3	Light Sensor
4	Power Button
6	Cable Routing Hole
6	Navi Key
7	Kensington Lock
8	Power Jack
9	USB 2.0 Type-A Port
1	Microphone Jack
•	Headphone Jack
12	USB 2.0 Type-B Upstream Port For USB Upstream Cable. Important Check the package for USB Upstream Cable and connect it to the PC and monitor. Once this cable is connected, the USB Type-A Downstream Ports on the monitor will be ready for use.
13	HDMI Port HIDINI NAUTINESIA NERRACE
12	DisplayPort
1	USB Type-C Port This port supports DisplayPort Alternate (DP Alt) Mode and up to 5V/3A power delivery.

16	Combo Audio Jack	
(1)	USB 3.2 Gen 1 Type-A Port	
1 B	USB 3.2 Gen1 Type-B Upstream Port For USB Upstream Cable. Important Check the package for USB Upstream Cable and connect it to the PC and monitor. Once this cable is connected, the USB Type-A Downstream Ports on the monitor will be ready for use.	To Monitor To PC

Connecting the Monitor to PC

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



OSD Setup

This chapter provides you with essential information on OSD Setup.

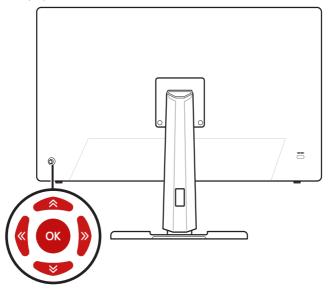


\ Important

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

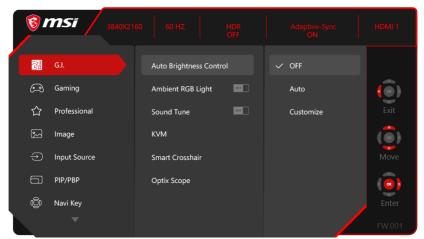
Press (OK):

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

Hot Key

- Users may enter into preset 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





Important

When receiving HDR signals, Night Vision, MPRT Sync, Low Blue Light, HDCR, Brightness, Contrast, Color Temperature, Optix Scope, Auto Brightness Control, Ambient RGB Light and PIP/PBP will be grayed out.

G.I.

1st Level Menu	2nd Level Menu	Description
Auto	OFF	Through the internal Light Sensor
Brightness Control	Auto	and AI (Artificial Intelligence) algorithm, this function
	Customize	detects the ambient light and automatically sets the monitor to optimal brightness for users.
		When Auto Brightness Control is set to Auto or Customize, the Brightness of OSD will be grayed out.
		Customize allows users to adjust the auto brightness curve.
		HDCR and MPRT Sync will be set to OFF while Auto or Customize is selected.

Ambient RGB Light	OFF ON		 Through the internal RGB Sensor and AI algorithm, this function detects the ambient color temperature and presents the best light effects synced to the environment. The Color Temperature of OSD will be grayed out while this function is enabled.
Sound Tune	OFF ON		 Through the internal digital array microphone and AI algorithm, this function enables Active Noise Cancellation (ANC) technology. For Sound Tune to properly work, the computer needs to be connected to the USB Upstream port of the monitor.
KVM	Auto Upstream Type-C		 Auto allows the monitor to automatically switch between USB input sources, such as keyboards, mice or other USB devices. Users can also designate Upstream port or USB Type-C as the only USB signal source.
Smart Crosshair	Icon	None	 Through AI algorithm, this function enhances the visibility of in-game crosshair. Users can select the color and position of the crosshair.
		Red	
		Auto	
	Position		
	Reset		

Optix Scope	Scope Size	Small	The center point will zoom in when Optix Scope is enabled, user
		Medium	can adjust the details through
		Large	the Scope Size and Scope Ratio settings.
	Scope Ratio	x1.5	Smart Crosshair and Optix Scope
		x2	can be enabled at the same time.
		x4	PIP/PBP, Adaptive Sync, and MPRT Sync will be set to OFF
	OFF		while Optix Scope function is enabled.
	ON		Screen Size 1:1 will be set to Auto while Optix Scope function is enabled.

Gaming

1st Level Menu	2nd/3rd Level Menu	Description
Game Mode	User	Use Up or Down Button to select and provious made effects.
	FPS	preview mode effects. • Press the OK Button to confirm and
	Racing	apply your mode type.
	RTS	
	RPG	
Night Vision	OFF	This function optimizes background brightness and is recommended to
	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 Sync is enabled.

1st Level Menu	2nd/3rd Level Menu		Description
MPRT Sync	OFF		When MPRT Sync is enabled, Brightness cannot be enabled and will be grayed out.
	ON		HDCR and MPRT Sync cannot be enabled simultaneously.
			Response time will be grayed out while MPRT Sync is enabled.
			MPRT Sync is available when the refresh rate is over 85Hz.
Refresh Rate	Location	Left Top	Location is adjustable in OSD Menu.
		Right Top	Press the OK Button to confirm and apply your Refresh Rate Location.
		Left Bottom	This monitor follows and works at the Operating System's preset Screen Refresh Rate.
		Right Bottom	Refresti Kate.
		Customize	
	OFF		
	ON		1
Alarm Clock	Location	Left Top	After setting the time, press the
		Right Top	Middle Button to activate the timer. • Users have to manually restore their
		Left Bottom	preset Alarm Clock after any AC power loss and reconnection.
		Right Bottom	
		Customize	
	OFF		
	15:00	00:01 ~	
	30:00	99:59	
45:00			
	60:00		
Adaptive-Sync	OFF ON		Adaptive-Sync prevents screen tearing.

Professional

1st Level Menu	2nd Level Menu	Description	
Pro Mode	User Anti-Blue	Use Up or Down Button to select and preview mode effects.	
		Press the OK Button to confirm and apply	
	Movie	your mode type.	
	Office		
	sRGB		
	Adobe RGB		
	Display P3		
	EC0		
Low Blue Light	OFF	Low Blue Light protects your eyes against When applied Low Blue Light	
	ON	 blue light. When enabled, Low Blue Light adjusts the screen color temperature to a more yellow glow. When Pro Mode is set to Anti-Blue, it is mandatory to enable Low Blue Light. 	
HDCR	OFF	 HDCR enhances image quality by increasing the contrast of images. When HDCR is set to ON, Brightness will be grayed out. HDCR and MPRT Sync cannot be enabled simultaneously. 	
MPRT Sync	OFF ON	 When MPRT Sync is enabled, Brightness cannot be enabled and will be grayed out. HDCR and MPRT Sync cannot be enabled simultaneously. Response time will be grayed out while MPRT Sync is enabled. MPRT Sync is available when the refresh rate is over 85Hz. 	
Image	OFF	Image Enhancement enhances image	
Enhancement	Weak	edges to improve their acutance.	
	Medium		
	Strong		
	Strongest		

Image

1st Level Menu	2nd/3rd Level N	d enu	Description
Brightness	0-100		Properly adjust Brightness according to the surrounding lighting.
			Brightness will be grayed out when MPRT Sync or HDCR are enabled.
Contrast	0-100		Properly adjust Contrast to relax your eyes.
Sharpness	0-5		Sharpness improves clarity and details of images.
Color	Cool Normal Warm		Use Up or Down Button to select and preview mode effects. Press the Middle Button to confirm and apply your mode
Temperature			
	Customization	R (0-100)	type. • Users can adjust Color
		G (0-100)	Temperature in Customization
		B (0-100)	mode.
Screen Size	Auto		Users can adjust Screen Size in
	4:3		any mode, any resolution and any screen refresh rate.
	16:9		
	1:1		

Input Source

1st Level Menu	2nd Level Menu	Description	
HDMI1		Users can adjust Input Source in any mode.	
HDMI2			
DP			
Type-C			
Auto Scan	OFF	Users can use the Navi Key to select Input	
	ON	Source at below status:	
	ON	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

1st Level Menu	2nd/3rd Level	l Menu	Description
OFF			PIP (Picture in Picture) allows
PIP	Source	HDMI1	users to simultaneously display
	Journe	HDMI2	multiple video sources on one screen. One program is displayed
		DP	on the full screen at the same
		Type-C	time as one or more other
	PIP Size	Small	programs are displayed in inset windows.
		Medium	PBP (Picture by Picture) is a
		Large	similar feature that displays two
	Location	Left Top	input sources side-by-side on the screen.
		Right Top	Display Switch allows users to
		Left Bottom	switch between primary and
		Right	secondary input sources.
		Bottom	If there is only one signal input, the Display Switch and Audio
		Customize	Switch will be grayed out.
	Display Switch	X	Users can adjust the ratio of window division by switching
	Audio Switch	Χ	mode 1/2/3. • Mode 3 is only for Optix
PBP	Mode 1	Χ	MPG321UR-QD.
	Mode 2		
	Mode 3		
	Source 1	HDMI1	
		HDMI2	
		DP	
		Type-C	
	Source 2	HDMI1	
		HDMI2	
		DP	
		Type-C	
	Display Switch	X	
	Audio Switch	X	

Navi Key

1st Level Menu	2nd Level Menu	Description
Up / Down / Left	OFF	All Navi Key items can be adjusted via
/ Right	Brightness	OSD Menus.
	Game Mode	
	Smart Crosshair	
	Alarm Clock	
	Input Source	
	PIP/PBP Mode	
	Refresh Rate	
	Info. On Screen	
	Night Vision	
	Optix Scope	
	KVM	

Setting

1st Level Menu	2nd Level Menu	Description		
Language	繁體中文	Users have to press the OK Button to		
	English	confirm and apply the Language setting.Language is an independent setting.		
	Français	Users' own language setting will override		
	Deutsch	the factory default. When users set Reset to Yes, Language will not be changed.		
	Italiano			
	Español			
	한국어			
	日本語			
	Русский			
	Português			
	简体中文			
	Bahasa Indonesia			
	Türkçe			
	(More languages coming soon)			
Transparency	0~5	Users can adjust Transparency in any mode.		
OSD Time Out	5~30s	Users can adjust OSD Time Out in any mode.		
Audio Source	Analog	Make sure the audio cable is well		
	Digital	connected between monitor and computer before selecting Analog Source.		
RGB LED	OFF	• Users can adjust RGB LED to ON or OFF.		
	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.		

1st Level Menu	2nd Level Menu	Description
Info. On Screen	OFF ON	The information of the monitor status will be shown on the right side of the screen. Users can enable or disable the Info. On Screen.
DP OverClocking (for Optix MPG321QRF- QD)	OFF ON	To reach maximum resolution of 2560x1440 @175Hz, users have to set DP OverClocking to ON.
HDMI 2.1 (for Optix MPG321UR-QD)	4K 120Hz - Console 4K 144Hz - PC	To reach maximum resolution of 3840x2160 @144Hz, users have to set HDMI 2.1 to 4K 144Hz - PC.
HDMI CEC	OFF	 HDMI CEC (Consumer Electronics Control) supports Sony PlayStation®, Nintendo® Switch™, Xbox Series X/S, 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. When Sony PlayStation®, Nintendo® Switch™, or Xbox Series X/S is connected, Game and Pro Mode will be automatically set to User mode (Default) and can be adjusted to users' preferred modes later.
Reset	YES NO	Users can Reset and restore settings to original OSD Default in any mode.

Specifications

Model	Optix MPG321UR-QD	Optix MPG321QRF-QD	
Size	32 inch		
Curvature	Flat		
Panel Type	IPS	Rapid IPS	
Resolution	3840 x 2160 (UHD)	2560 x 1440 (QHD)	
Aspect Ratio	16:9	2000 X 1440 (Q11D)	
Brightness (nits)	400 (typ.)		
Contrast Ratio	1000:1		
Refresh Rate	144Hz	175Hz (Default: 165Hz)	
Response Time	4ms (GTG)/ 1ms (MPRT)	1ms (GTG)/ 1ms (MPRT)	
1/0	 HDMI Port x2 DisplayPort x1 USB Type-C Port x1 USB 2.0 Type-A Port x6 USB 2.0 Type-B Upstream Port x3 Headphone Jack x1 Microphone Jack x1 Combo Audio Jack x1 	 HDMI Port x2 DisplayPort x1 USB Type-C Port x1 USB 3.2 Gen 1 Type-A Port x3 USB 3.2 Gen 1 Type-B Port x1 Headphone Jack x1 Microphone Jack x1 Combo Audio Jack x1 	
View Angles	178°(H) , 178°(V)		
DCI-P3*/ sRGB	97% / 143%	95% / 144%	
Surface Treatment	Anti-glare		
Display Colors	1.07B (10 bit)	1.07B (8 bit + FRC)	
Monitor Power Options	100~240Vac, 50/60Hz, 2A		
Power Consumption (Typical)	Power On < 160W Standby < 0.5W Power Off < 0.3W		
Adjustment (Tilt)	-5° ~ 20°		
Adjustment (Height)	0 ~ 100mm		

Model		Optix MPG321UR-QD	Optix MPG321QRF-QD		
Adjustment (Swivel)		-30° ~ 30°			
Kensington Loc	:k	Yes			
VESA Mounting		• Plate Type: 100 x 100 mm			
		• Screw Type: M4 x 10 mm			
		• Thread Diameter: 4 mr	n		
		• Thread Pitch: 0.7 mm			
		Thread Length: 10 mm			
Dimension (W)	(H x D)	727.1 x 482.2 x 251.8 mm			
Weight		10.1 kg (net)	10.2 kg (net)		
		14.1 kg (gross)	13.9 kg (gross)		
Environment Operating		• Temperature: 0°C to 40°C			
Storage		Humidity: 20% to 90%, non-condensing			
		• Altitude: 0 ~ 5000m			
		• Temperature: -20°C to 60°C			
		• Humidity: 10% to 90%, non-condensing			

^{*} Based on CIE1976 test standards.

Preset Display Modes

Standard Bandation		Optix MPG321UR-QD		
Standard	Resolution		HDMI	DP/ Type-C
VGA	640x480	@60Hz	٧	V
		@67Hz	٧	V
		@72Hz	٧	V
		@75Hz	V	V
SVGA	800x600	@56Hz	V	V
		@60Hz	V	V
		@72Hz	V	V
		@75Hz	V	V
XGA	1024x768	@60Hz	V	V
		@70Hz	V	V
		@75Hz	V	V
SXGA	1280x1024	@60Hz	V	V
		@75Hz	V	V
WXGA+	1440x900	@60Hz	V	V
WSXGA+	1680x1050	@60Hz	V	V
Full HD	1920x1080	@60Hz	V	V
QHD	2560x1440	@60Hz	V	V
		@120Hz	V	V
		@144Hz	V	V
UHD	3840x2160	@60Hz	V	V
		@120Hz	V	V
		@144Hz	V *	V
Video	480P		V	V
Timing Resolution	576P		V	V
Resolution	720P		٧	V
	720P @120H	Z	V	V
	1080P @60H	Z	V	V
	1080P @120H	Ηz	V	V
	2160P @30H	Z	V	V
	2160P @50H	Z	V	V
	2160P @60H	Z	V	V
	2160P @120Hz		V	V

^{*} Users have to set HDMI 2.1 to 4K 144Hz - PC.

PBP Resolution			Optix MPG321UR-QD	
FBF	Resolution		HDMI	DP/ Type-C
Mode 1	2560x2160	@60Hz	V	V
	1280x2160	@60Hz	V	V
Mode 2	1920x2160	@60Hz	V	V
Mode 3	3840x1080	@60Hz	V	V
	2560x1080	@60Hz	V	V

Chandand	d Resolution		Optix MPG321QRF-QD		
Standard	Resolution		HDMI	DP/ Type-C	
VGA	640x480	@60Hz	V	V	
		@67Hz	V	V	
		@72Hz	V	V	
		@75Hz	V	V	
SVGA	800x600	@56Hz	V	V	
		@60Hz	V	V	
		@72Hz	V	V	
		@75Hz	V	V	
XGA	1024x768	@60Hz	V	V	
		@70Hz	V	V	
		@75Hz	V	V	
SXGA	1280x1024	@60Hz	٧	V	
		@75Hz	٧	V	
WXGA+	1440x900	@60Hz	٧	V	
WSXGA+	1680x1050	@60Hz	V	V	
Full HD	1920x1080	@60Hz	V	V	
QHD	2560x1440	@60Hz	V	V	
		@120Hz	V	V	
		@144Hz	V	V	
		@165Hz	Х	V	
		@175Hz	Х	V *	
Video	480P		٧	V	
Timing	576P		V	V	
Resolution	720P		٧	V	
	1080P @60H	1080P @60Hz		V	
	1080P @120Hz		V	V	
	2160P @30Hz		V	V	
	2160P @50H	Z	V	V	
	2160P @60Hz		V	V	
I I I sers have to set DP OverClocking to ON					

^{*} Users have to set DP OverClocking to ON.

PBP	Resolution		Optix MPG321QRF-QD	
FDF			HDMI	DP/ Type-C
Mode 1	1920x1440	@60Hz	V	V
	640x1440	@60Hz	V	V
Mode 2	1280x1440	@60Hz	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 Guide should be noted.
- Refer servicing to qualified personnel only.

Power

- 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.
- If the power cord comes with a 3-pin plug, do not disable the protective earth pin from the plug. The device must be connected to an earthed mains socket-outlet.
- Please confirm the power distribution system in the installation site shall provide the circuit breaker rated 120/240V, 20A (maximum).
- 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.
- Place the power cord in a way that people are unlikely to step on it. Do not place anything on the power cord.
- If this device comes with an adapter, use only the MSI provided AC adapter approved for use with this device.

Battery

Please take special precautions if this device comes with a battery.

- Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer.
- Avoid disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, which can result in an explosion.
- Avoid leaving a battery in an extremely high temperature or extremely low air pressure environment that can result in an explosion or the leakage of flammable liquid or gas.
- Do not ingest battery. If the coin/button cell battery is swallowed, it can cause severe internal burns and can lead to death. Keep new and used batteries away from children.

European Union:



Batteries, battery packs, and accumulators should not be disposed of as unsorted household waste. Please use the public collection system to return, recycle, or treat them in compliance with the local regulations.

Taiwan:



廢電池請回收

For better environmental protection, waste batteries should be collected separately for recycling or special disposal.

California. USA:



The button cell battery may contain perchlorate material and requires special handling when recycled or disposed of in California. For further information please visit: https://dtsc.ca.gov/perchlorate/

Environment

- To reduce the possibility of heat-related injuries or of overheating the device, do not place the device on a soft, unsteady surface or obstruct its air ventilators.
- Use this device only on a hard, flat and steady surface.
- To prevent the device from tipping over, secure the device to a desk, wall or fixed object with an anti-tip fastener that helps to properly support the device and keep it safe in place.
- To prevent fire or shock hazard, keep this device away from humidity and high temperature.
- 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.
- 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.
- 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 working according to the User Guide.
 - The device has dropped and damaged.
 - The device has obvious sign of breakage.

TÜV Rheinland 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 eye 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 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 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

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.

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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.