

MAG Series LCD Monitor

MAG 274UPF (3CC2)

User Guide

Contents

Getting Started
Package Contents
Installing the Monitor Stand
Adjusting the Monitor5
Monitor Overview
Connecting the Monitor to PC8
OSD Setup9
Navi Key
Hot Key9
OSD Menus
Gaming10
Professional
Image
Input Source
PIP/PBP
Navi Key 16
Setting16
Specifications
Preset Display Modes
Troubleshooting
Safety Instructions
TÜV Rheinland Certification26
Regulatory Notices

Revision

V1.0, 2023/6

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

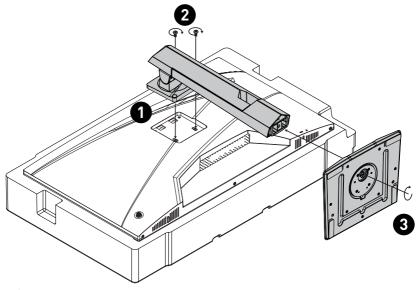
Monitor	MAG 274UPF		
Documentation	Quick Start Guide		
	Stand with Screw(s)		
Accessories	Stand Base with Screw(s)		
Accessories	Screw(s) for Wall Mount Bracket(s)		
	External Power Supply & Power Cord		
	Ultra High Speed HDMI™ Cable (Optional)		
	USB Type-C Cable (Optional)		
Cables	USB Upstream Cable (Optional) (for USB Type-B Upstream Port)		
	DisplayPort Cable (Optional)		

Important

- 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.



🚺 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.
- This product comes with NO protective film to be removed by the user! Any mechanical damages to the product including removal of the polarizing film may affect the warranty!

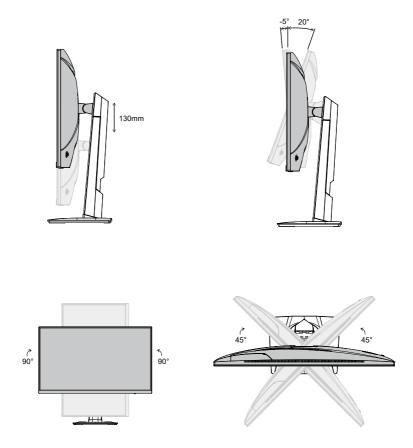


Adjusting the Monitor

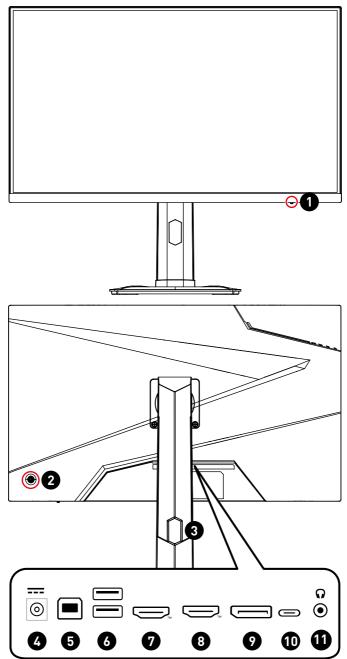
This monitor is designed to maximize your viewing comfort with its adjustment capabilities.

Important

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



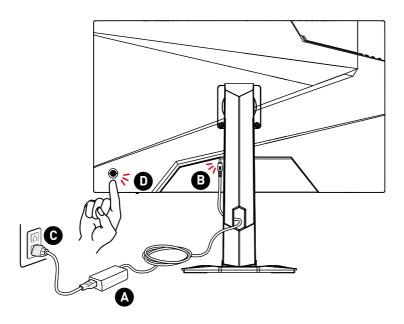
Monitor Overview



1	Power LED				
	Lit in white after the monitor is turned on. If no signal input, the LED will				
	turn into orange. Lit in orange when the monitor is in Stand-by mode.				
2	Power Button & Navi Key				
3	Cable Routing Hole				
6	Power Jack				
6	USB 2.0 Type-B Upstream Port				
	For USB Upstream Cable.				
	Important	To Monitor			
	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 PC			
6	USB 2.0 Type-A Port				
7					
	Supports HDMI™ CEC, 3840x2160@144Hz as specified in HDMI™ 2.1.				
8					
	Supports 3840x2160@144Hz as specified in HDMI™ 2.1.				
	DisplayPort				
9	Supports 3840x2160@144Hz as specified in Disp	lavPort 1.4a.			
	USB Type-C Port				
0	This port supports DisplayPort Alternate (DP Alt) Mode and up to	USB Type-C Power Delivery			
	20V/3.25A (65W) power delivery.	5V / 3A (15W)			
	\wedge	9V / 3A (27W)			
	Important 12V / 3A (36W)				
	Your USB Type-C Port signal source	15V / 3A (45W)			
	and cable must support DisplayPort Alternate Mode to enable video output to the monitor.	20V / 3.25A (65W)			
1	Headphone Jack				

Connecting the Monitor to PC

- 1. Turn off your computer.
- 2. Connect the video cable from the monitor to your computer.
- **3.** Assemble the external power supply & power cord. (Figure A)
- 4. Connect the external power supply 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.



OSD Setup

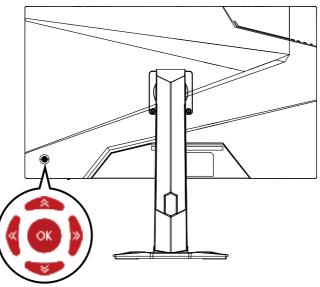
This chapter provides you with essential information on OSD Setup.



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

	M	
Barre Mode	2 Cor	100
Agerve-r	HS.	
Serptings Time	HAR:	
Nitt.	0.005	(0)
Sether Tele	R-5	
Alam Sleik		
2004		
	Niger ordere Desponsent me Mosen Sethern Dese Alann Slock	Niger orderer († 185) Degesteeft mer († 186) Nation Nation Sether Teter († 185) Alam Stock

Important

The following settings will be grayed out when HDR signals are received:

- Night Vision
- MPRT
- Low Blue Light
- HDCR
- Brightness

- Contrast
- Color Temperature
- Optix Scope
- PIP/PBP

Gaming

1st Level Menu	2nd/3rd Level Menu	Description
Game Mode	User	Use Up or Down Button to select and preview
	FPS	mode effects.Press the OK Button to confirm and apply your
	Racing	mode type.
	RTS	
	RPG	
Night Vision	OFF	This function optimizes background brightness
	Normal	and is recommended for FPS games.
	Strong	
	Strongest	
	A.I.	

1st Level Menu	2nd/3rd Level Menu		Description		
Response Time	Normal		Setting to Fastest will reach the shortest response time and help improve blurred images		
	Fast		when playing very fast games.		
	Fastest				
MPRT	OFF		MPRT is available whe	n the refresh rate is over	
	ON		85Hz.Activating MPRT will affect:		
			Affected Function	Function Status	
			 » Response Time » Brightness 	Unable to select	
			 » Adaptive-Sync » HDCR » PIP/PBP » Optix Scope 	Set to OFF	
			» Screen Size 1:1	Set to Auto	
Refresh Rate	Location	Left Top	• Location is adjustable		
		Right Top	OK Button to confirm and apply your Refresh Rate Location. • This monitor follows and works at the Operatin		
		Left Bottom			
		Right Bottom	System's preset Screen Refresh Rate.		
		Customize			
	OFF				
	ON				
Alarm Clock	Location	Left Top	• After setting the time, press the OK Button t		
		Right Top	activate the timer.Users have to manuall	v restore their preset	
		Left Bottom	Alarm Clock after any		
		Right Bottom	reconnection.		
		Customize]		
	OFF				
	15:00	00:01 ~ 99:59			
	30:00				
	45:00				
60:00					
KVM	Auto			or to automatically switch	
	Upstream		between USB input sources, such as keyboards, mice or other USB devices.		
	Туре С		 Users can also designa Type-C as the only USI 	ate Upstream port or USB 3 signal source.	

1st Level Menu	2nd/3rd Lev	vel Menu	Description
Smart Crosshair	Icon Color	None	 Through Al algorithm, this function enhances the visibility of in-game crosshair. Users can select the color and position of the crosshair.
	Position Reset		-
Optix Scope	Scope Size Scope Ratio	Small Medium Large x1.5	 The center point will zoom in when Optix Scope is enabled, user can adjust the details through the "Scope Size" and "Scope Ratio" settings. Smart Crosshair and Optix Scope can be enabled at the same time. Activating Optix Scope will affect:
	hallo	x2	Affected Function Function Status
	OFF ON	x4	» MPRT » Adaptive-Sync Set to 0FF » PIP/PBP » Screen Size 1:1 Set to Auto
Adaptive-Sync	OFF ON		 Adaptive-Sync prevents screen tearing. When Adaptive-Sync is set to ON, it is mandatory to enable HDMI™ VRR*. Activating Adaptive-Sync will affect:
			Affected Function Function Status » MPRT

* HDMI[™] VRR (Variable Refresh Rate) synchronizes with **Adaptive-Sync (ON/ OFF)** and is disabled when **Screen Size 1:1** is set to ON.

Professional

1st Level Menu	2nd Level Menu	Description				
Pro Mode	Eco	Use Up or Down Button to select and preview mode effects.				
	User	Press the OK Button to confirm and apply your mode				
	Anti-Blue	 type. The default setting "Eco" mode meets the 				
	Movie	requirements of TÜV Rheinland's "Low Blue Light" standard and Eyesafe certification.				
	Office					
	sRGB	-				
Low Blue Light	OFF	Low Blue Light protects your eyes against blue light.				
	ON	 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. 				
		• This monitor is a Low Blue Light backlight monitor,				
		it would decrease the blue light emitted without adjusting OSD function.				
HDCR	OFF	• HDCR enhances image quality by increasing the				
	ON	contrast of images. Activating HDCR will affect: 				
		Affected Function Function Status				
		» MPRT Set to OFF				
		» Brightness Unable to select				
MPRT	OFF	• MPRT is available when the refresh rate is over 85Hz.				
	ON	Activating MPRT will affect:				
		Affected Function Function Status				
		 » Response Time w Brightness Unable to select 				
	 » Adaptive-Sync » HDCR » PIP/PBP » Optix Scope 					
		» Screen Size 1:1 Set to Auto				
Image Enhancement	OFF	Image Enhancement enhances image edges to improve				
	Weak	their acutance.				
	Medium	1				
	Strong					
	Strongest					

Image

1st Level Menu	2nd/3rd Level Menu		Description		
Brightness	0-100		 Properly adjust Brightness according to the surrounding lighting. 		
Contrast	0-100		•	Properly adjust Contrast	to relax your eyes.
Sharpness	0-5			Sharpness improves cla images.	rity and details of
Color Temperature	Cool			Use Up or Down Button t mode effects.	to select and preview
	Normal			mode effects. Press the OK Button to c	onfirm and apply your
	Warm			mode type.	onni ni anu appty you
	Customization	R (0-100)		Users can adjust Color T	emperature in
		G (0-100)	1	Customization mode.	
		B (0-100)	ĺ		
Screen Size	Auto		Users can adjust Screen Size in any mode, any resolution and any screen refresh rate. Activating Screen Size 16:10 will affect:		
	4:3				
	16:9			5	
	16:10		1	Affected Function	Function Status
	1:1			Not supported	
				Unable to select	
			Activating Screen Size 1:1 will		1 will affect:
				Affected Function	Function Status
				» MPRT » Adaptive-Sync » PIP/PBP » Optix Scope	Set to OFF

Input Source

1st Level Menu	2nd Level Menu	Description
HDMI™ 1		• Users can adjust Input Source in any mode.
HDMI™ 2		
DP		
Туре С		
Auto Scan	OFF	Users can use the Navi Key to select Input Source at
	ON	 below status: 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 Menu		Descrip	otion	
OFF	OFF		• PIP (Picture in Picture) allows users to		
PIP	Source	HDMI™ 1		Iltiple video sources on is displayed on the full	
		HDMI™ 2	scree	s one or more other inset windows.	
		DP	' '	a similar feature that	
		Туре С	displ	side-by-side on the	
	PIP Size	Small	scree • Displ	en. Iay Switch allows user	rs to switch between
		Medium		ary and secondary inp	
		Large		re is only one signal i Audio Switch will be g	nput, the Display Switch
	Location	Left Top		ating PIP/PBP will aff	,
		Right Top		ected Function	Function Status
		Left Bottom	» Ac	daptive-Sync	Set to OFF
		Right Bottom		ptix Scope esponse Time	
		Customize		PRT	Unable to select
	Display Swit	ch	» H	DMI™ 2.1	
	Audio Switch	1	> HDMI™ CEC Set to b to sele		
PBP	Mode 1		» S	creen Size 16:10	Set to Auto
	Mode 2	1	» P	PIP: Screen Size 1:1	
	Source 1	HDMI™ 1	» P	BP: Screen Size 1:1	Set to Auto
		HDMI™ 2			
		DP			
		Туре С			
	Source 2	HDMI™ 1			
		HDMI™ 2	M 2		
		DP			
		Туре С			
	Display Switch				
	Audio Switch	ו 			

Navi Key

1st Level Menu	2nd Level Menu	Description
Up	OFF	• All Navi Key items can be adjusted via OSD Menus.
Down	Brightness	
Left	Game Mode	
Right	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 confirm and
	English	apply the Language setting. • Language is an independent setting. Users' own
	Français	language setting will override the factory default.
	Deutsch	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.
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	• The information of the monitor status will be shown
	ON	on the right side of the screen.
HDMI™ 2.1	Console	• To reach maximum resolution of 3840x2160@144Hz, users have to set HDMI™ 2.1 to PC.
	PC	
HDMI™ CEC	OFF	 HDMI[™] CEC (Consumer Electronics Control) supports Sony PlayStation[®], Nintendo[®] Switch[™],
	ON	Xbox Series X S consoles 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 XIS console is connected, Game Mode and Pro Mode will be automatically set to default Eco mode and can be adjusted to users' preferred modes later.
Type C PD Charge	OFF	• Type-C PD Charge enables users to charge their
	ON	devices through a USB Type-C connector, which can deliver up to 65W (20V/3.25A).
Reset	YES	Users can Reset and restore settings to original
	NO	OSD Default in any mode.

Specifications

Monitor	MAG 274UPF		
Size	27 inch		
Curvature	Flat		
Panel Type	Rapid IPS		
Resolution	3840x2160 (UHD)		
Aspect Ratio	16:9		
Brightness	• SDR: 400 nits (typ.)		
	• HDR Peak: 400 nits		
Contrast Ratio	1000:1		
Refresh Rate	144Hz		
Response Time	• 1ms (MPRT)		
	• 1ms (GTG)		
	• 10ms (Tr + Tf)		
I/O	• HDMI™ Connector x 2		
	• DisplayPort x 1		
	 USB Type-C Port (DP Alt Mode) x 1 		
	• Headphone Jack x 1		
	• USB 2.0 Type-A Port x2		
	• USB 2.0 Type-B Upstream Port x1		
View Angles	178°(H) , 178°(V)		
DCI-P3*/ sRGB	97%/ 129%		
Surface Treatment	Anti-glare		
Display Colors	1.07B 10bits (8 bits + FRC)		
Monitor Power Options	19V === 6.32A		
External Power Supply	Model: ADS-120QL-19-3 190120E		
Power Input	100~240Vac, 50~60Hz		
Power Output	19V 🗰 6.32A		
Adjustment (Height)	0 ~ 130mm		
Adjustment (Tilt)	-5° ~ 20°		
Adjustment (Swivel)	-45° ~ 45°		
Adjustment (Pivot)	-90° ~ 90°		
Kensington Lock	Yes		

Monitor		MAG 274UPF	
VESA Mounting		• Plate Type: 75 x 75 mm	
		• Screw Type: M4 x 10 mm	
		• Thread Diameter: 4 mm	
		• Thread Pitch: 0.7 mm	
		 Thread Length: 10 mm 	
Dimension (W	x H x D)	613.5 x 196.5 x 402.1 mm	
Waight	Net	6.05 kg	
Weight	Gross	8.10 kg	
Environment	Operating	• Temperature: 0°C to 40°C	
		• Humidity: 20% to 90%, non-condensing	
		• Altitude: 0 ~ 5000m	
Storage		• Temperature: -20°C to 60°C	
		• Humidity: 10% to 90%, non-condensing	

* Based on CIE1976 test standards.

Preset Display Modes

Important

All information is subject to change without prior notice.

Clandard	Resolution		Standard Mode HDMI™ 2.1 - PC		
Standard			HDMI™	DP	USB-C
Full HD	1920x1080	@60Hz	V	V	V
QHD	2560x1440	@60Hz	V	V	V
		@120Hz	V	V	V
		@144Hz	V	V	V
UHD	3840x2160	@60Hz	V	V	V
		@120Hz	V	V	V
		@144Hz	V	V	V
Video	720P		V	V	V
Timing Resolution	720P	@120Hz	V	V	V
Resolution	1080P	@60Hz	V	V	V
		@120Hz	V	V	V
	2160P	@30Hz	V		
		@50Hz	V		
		@60Hz	V		
		@120Hz	V		
	HDMI™ VRR	HDMI™ VRR*			

* HDMI[™] VRR (Variable Refresh Rate) synchronizes with **Adaptive-Sync (ON/OFF)** and is disabled when **Screen Size 1:1** is set to ON.

	tandard Resolution		HDMI™ 2.1 - Console		
Standard			HDMI™	DP	USB-C
Full HD	1920x1080	@60Hz	V		
QHD	2560x1440	@60Hz	V		
		@120Hz	V		
		144Hz	V		
UHD	3840x2160	@60Hz	V		
Video	720P		V		
Timing Resolution	720P	@120Hz	V		
Resolution	1080P	@60Hz	V		
		@120Hz	V		
	2160P	@30Hz	V		
		@50Hz	V		
		@60Hz	V		
		@120Hz	V		
	HDMI™ VRR	*	V		

* HDMI[™] VRR (Variable Refresh Rate) synchronizes with Adaptive-Sync (ON/OFF) and is disabled when Screen Size 1:1 is set to ON.

Chandand	Resolution		PIP Mode w/o HDR		
Standard			HDMI™	DP	USB-C
Full HD	1920x1080	@60Hz	V	V	V
QHD	2560x1440	@60Hz	V	V	V
UHD	3840x2160	@60Hz	V	V	V
Video Timing Resolution	720P		V	V	V
	1080P	@60Hz	V	V	V
	2160P	@50Hz	V	V	V
		@60Hz	V	V	V

Chandand	Resolution		PBP Mode 1 w/o HDR		
Standard			HDMI™	DP	USB-C
Video	Video 720P		V	V	V
Timing Resolution	1080P	@60Hz	V	V	V
	2160P	@30Hz	V	V	
		@50Hz	V	V	
		@60Hz	V	V	
Used for PBP Full Screen	960x2160	@60Hz	V	V	V
	2880x2160	@60Hz	V	V	V

Chandard	Resolution		PBP Mode 2 w/o HDR		
Standard			HDMI™	DP	USB-C
Video	720P		V	V	V
Timing Resolution	1080P	@60Hz	V	V	V
	2160P	@30Hz	V	V	
		@50Hz	V	V	
		@60Hz	V	V	
Used for PBP Full Screen	1920x2160	@60Hz	V	V	V

Chandand	rd Resolution		Screen Size 16:10 w/o HDR		
Standard			HDMI™	DP	USB-C
QHD+	2560x1660 @60Hz		V	V	V
		@120Hz	V	V	V
		@144Hz	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 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.

BSMI:



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.

26 TÜV Rheinland Certification

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.
- 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 basis

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/CF(EU)).

(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



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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.

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WEEE 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://csr.msi.com/global/index

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://csr.msi.com/global/Japan-JIS-C-0950-Material-Declarations

India RoHS

This product complies with the "India E-waste (Management and Handling) Rule 2016" 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 10 March 2017, \mathbb{N}° 139, 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.
- 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.

