

# MAG Series

MAG 256F (3BC1)

User Guide

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V1.0, 2024/03

# **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**

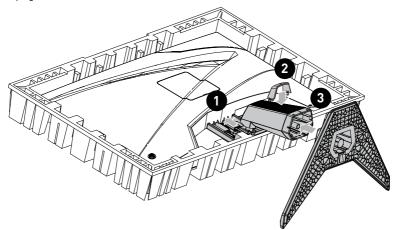
Monitor	MAG 256F			
Documentation	Quick Start Guide			
Accessories	Stand			
	Stand Base			
Power Cord & External Power Supply				
Cables	Premium High Speed HDMI™ Cable (Optional)			



- Contact your place of purchase or local distributor if any of the items is damaged or missing.
- Package contents may vary by country and model.
- 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 packaging. Align and gently push the stand bracket towards the monitor groove until it locks in place.
- 2. Align and gently push the cable organizer towards the stand until it locks in place.
- **3.** Align and gently push the base towards the stand until it locks in place.
- **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 back of the monitor 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!

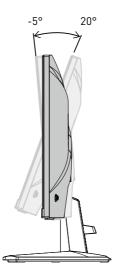


# Adjusting the Monitor

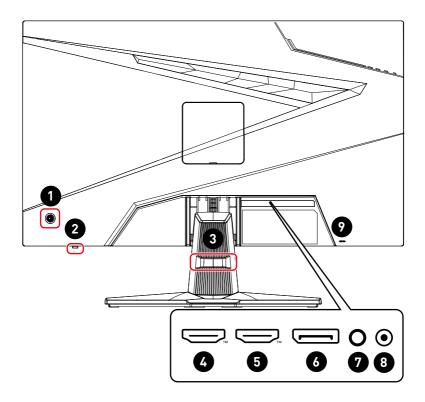
This monitor is designed to maximize your viewing comfort with its adjustment capabilities.



Avoid touching the display panel when adjusting the monitor.



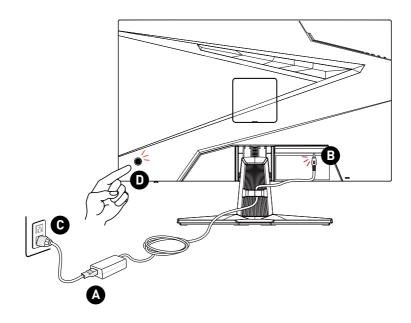
# **Monitor Overview**



0	Power Button & Navi Key
2	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.
3	Cable Organizer
4	
	Supports HDMI™ CEC, 1920x1080@180Hz as specified in HDMI™ 2.0.
5	
	Supports 1920x1080@180Hz as specified in HDMI™ 2.0.
6	DisplayPort
	Supports 1920x1080@180Hz as specified in DisplayPort 1.2a.
7	Headphone Jack
8	Power Jack
9	Kensington Lock

# **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

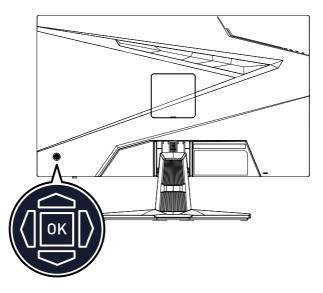
This chapter provides you with essential information on OSD Setup.



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**

🔞 msi	1920 X108	0 60 HZ	HDR OFF	Adaptive-Syn OFF	c	DP
Caming Gaming		Game Mode		✓ User		< 0x >
☆ Professio	onal N	Night Vision		FPS		Exit
🔛 Image	F	A.I. Vision	OFF	Racing		-
→ Input So	urce F	Response Time		RTS		
ංලි Navi Key			OFF	RPG		Move
😥 Settings	F	Refresh Rate				
	ŀ	Alarm Clock				Enter
		•				FW .006

# Important

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

- Night Vision
- MPRT
- Low Blue Light
- HDCR

- A.I. Vision
- Brightness
- Contrast
- Color Temperature

# Gaming

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

1st Level Menu	2nd/3rd Le	vel Menu	De	escription		
A.I. Vision OFF ON		<ul> <li>A.I. Vision enhances image quality by optimithe contrast of images and background brightness.</li> <li>Activating A.I. Vision will affect:</li> </ul>				
			Affected Function Function Status			
			» MPRT Set to OFF	Set to OFF		
				» Brightness	Unable to select	
Response Time	Normal			Setting to Fastest will reach the shortest		
	Fast			when playing very fast	lp improve blurred images t games.	
	Fastest		1			
MPRT	OFF			MPRT is available whe 85Hz.	en the refresh rate is over	
	ON		•	Activating MPRT will a	affect:	
				Affected Function	Function Status	
				<ul> <li>» Response Time</li> <li>» Brightness</li> </ul>	Unable to select	
				» Adaptive-Sync » HDCR » A.I. Vision	Set to OFF	
Refresh Rate	Location	Left Top	•	Location is adjustable	ble in OSD Menu. Press the	
		Right Top	OK Button to confirm and apply y Rate Location.	and apply your Refresh		
		Left Bottom	System's preset Screen Refresh Rate.			
		Right Bottom				
	OFF	OFF				
	ON		1			
Alarm Clock	Location	Left Top			press the OK Button to	
		Right Top		activate the timer. Users have to manual	ly restore their preset	
		Left Bottom	Alarm Clock after any AC power loss and reconnection.	AC power loss and		
		Right Bottom				
	OFF	OFF				
	15:00	00:01 ~ 99:59	59			
	30:00	]				
	45:00	1				
	60:00	1				

1st Level Menu	2nd/3rd Level Menu	Description	
Screen Assistance	$ \begin{array}{c} \text{Icon} \\ \hline \\ $	<ul> <li>Through AI algorithm, the visibility of in-game cross</li> <li>Users can select the cold crosshair.</li> </ul>	sshair.
Adaptive-Sync	OFF ON	<ul> <li>Adaptive-Sync prevents</li> <li>When Adaptive-Sync is s to enable HDMI™ VRR.</li> <li>HDMI™ VRR (Variable R synchronizes with Adap</li> <li>Activating Adaptive-Sync</li> <li>Affected Function         <ul> <li>MPRT</li> </ul> </li> </ul>	set to ON, it is mandatory efresh Rate) tive-Sync (ON/ OFF).

# Professional

1st Level Menu	2nd Level Menu	Description	
Pro Mode	Eco	Use Up or Down Button to select and preview mode     effects	
	User	<ul> <li>Press the OK Button to confirm and apply your mode</li> </ul>	
	Anti-Blue	type. • Activating sRGB will affect:	
	Movie	Affected Function Function Status	
	Office	» Color Temperature » Low Blue Light Unable to select	
	sRGB	» A.I. Vision	
Low Blue Light	OFF	Low Blue Light protects your eyes against blue light.	
	ON	<ul><li>When enabled, Low Blue Light adjusts the screen color temperature to a more yellow glow.</li><li>When Pro Mode is set to Anti-Blue, it is mandatory to enable Low Blue Light.</li></ul>	

1st Level Menu	2nd Level Menu	Description	
HDCR	OFF ON	<ul> <li>HDCR enhances image contrast of images.</li> <li>Activating HDCR will af Affected Function         <ul> <li>MPRT</li> <li>Brightness</li> </ul> </li> </ul>	
MPRT	OFF ON	MPRT is available when the refresh rate is over     Activating MPRT will affect:	
		Affected Function <ul> <li>Response Time</li> <li>Brightness</li> <li>Adaptive-Sync</li> <li>HDCR</li> <li>A.I. Vision</li> </ul>	Function Status       Unable to select       Set to OFF
Image Enhancement	OFF Weak Medium Strong Strongest	Image Enhancement er their acutance.	hances image edges to improve

# Image

1st Level Menu	2nd/3rd Level Menu		Description
Brightness	0-100		<ul> <li>Properly adjust Brightness according to the surrounding lighting.</li> </ul>
Contrast	0-100		• Properly adjust Contrast to relax your eyes.
Sharpness	0-5		<ul> <li>Sharpness improves clarity and details of images.</li> </ul>
Color Temperature	Cool Normal Warm		Use Up or Down Button to select and preview mode effects.
			<ul> <li>Press the OK Button to confirm and apply your</li> </ul>
			<ul><li>mode type.</li><li>Users can adjust Color Temperature in</li></ul>
	Customization	R (0-100)	Customization mode.
		G (0-100)	
		B (0-100)	

1st Level Menu	2nd/3rd Level Menu	Description
Screen Size	Auto	Users can adjust Screen Size in any mode, any
	4:3	resolution and any screen refresh rate.
	16:9	

# Input Source

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

# Navi Key

1st Level Menu	2nd Level Menu	Description
Up	OFF	• All Navi Key items can be adjusted via OSD Menus.
Down Left Right	Brightness	
	Game Mode	
	Screen Assistance	
	Alarm Clock	
	Input Source	
	Refresh Rate	
	Info. On Screen	
	Night Vision	

# Settings

1st Level Menu	2nd Level Menu	Description
Language	繁體中文	<ul> <li>Users have to press the OK Button to confirm and apply the Language setting.</li> </ul>
	English	Language is an independent setting. Users' own
	Français	language setting will override the factory default. When users set Reset to Yes, Language will not be
	Deutsch	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	<ul> <li>When set to OFF, users can press the power button to turn off the monitor.</li> </ul>
	Standby	<ul> <li>When set to Standby, users can press the power button to turn off the panel and backlight.</li> </ul>
Info. On Screen	OFF	• The information of the monitor status will be shown
	ON	on the right side of the screen.

1st Level Menu	2nd Level Menu	Description	
HDMI™ CEC	OFF	<ul> <li>HDMI<sup>™</sup> CEC (Consumer Electronics Control) supports Sony PlayStation<sup>®</sup>, Nintendo<sup>®</sup> Switch<sup>™</sup>,</li> </ul>	
	ON	Xbox Series X S consoles and various audio-visual devices that are CEC-capable. • If HDMI™ CEC is set to ON:	
		<ul> <li>The monitor will automatically power on when the CEC device is turned on.</li> <li>The CEC device will enter power saving mode when the monitor is turned off.</li> </ul>	
		<ul> <li>When Sony PlayStation<sup>®</sup>, Nintendo<sup>®</sup> Switch<sup>™</sup>, 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.</li> </ul>	
Reset	YES	Users can Reset and restore settings to original     OCD Default is sourcede	
	NO	OSD Default in any mode.	

# **Specifications**

Monitor		MAG 256F	
Size		24.5 inch	
Curvature		Flat	
Panel Type		Rapid IPS	
Resolution		1920x1080 (FHD)	
Aspect Ratio		16:9	
SDR Brightnes	ss (nits)	250	
Contrast Ratio		1000:1	
Refresh Rate		180Hz	
Response Time		<ul> <li>1ms (MPRT)</li> <li>1ms (GTG)</li> </ul>	
I/O		<ul> <li>HDMI<sup>™</sup> Connector x 2</li> <li>DisplayPort x1</li> <li>Headphone Jack x1</li> </ul>	
View Angles		178°(H) , 178°(V)	
DCI-P3*/ sRGE	3	96% / 127%	
Surface Treat	ment	Anti-glare	
Display Colors		1.07B, 10bits (8bits + FRC)	
Monitor Power Options		12.0V === 2.5A 30.0W	
External Powe	er Supply**	Model: ADS-40NP-12-1 12030E	
Power Input		100~240V~, 50/60Hz Max 1.0A	
Power Output		12.0V === 2.5A 30.0W	
Adjustment (Tilt)		-5° ~ 20°	
Kensington Lock		Yes	
VESA Mounting		Plate Type: 75 x 75 mm	
Dimension (W x D x H)		560 x 220.1 x 421.4 mm	
Weight	Net	3.25 kg	
Weight	Gross	5.66 kg	

Monitor		MAG 256F	
Environment	Operating	• Temperature: 0°C to 40°C	
		<ul> <li>Humidity: 20% to 90%, non-condensing</li> </ul>	
		• Altitude: 0 ~ 5000m	
	Storage	• Temperature: -20°C to 60°C	
		• Humidity: 10% to 90%, non-condensing	

- \* Based on CIE1976 test standards.
- \*\* External Power Supply may vary by country.

# **Preset Display Modes**

# Important

All information is subject to change without prior notice.

Standard	Resolution		HDMI™	DP
VGA	640x480	@60Hz	V	V
		ାର୍ଜ୍ମମୟ	V	V
		@72Hz	V	V
		@75Hz	V	V
Dos Mode	720x480	@60Hz	V	V
	720x576	ି 050Hz	V	V
SVGA	800x600	ଗ୍ର56Hz	V	V
		@60Hz	V	V
		ଗ72Hz	V	V
		ାପ75Hz	V	V
XGA	1024x768	@60Hz	V	V
		ଗ70Hz	V	V
		ା ପମ୍ଚମୁ	V	V
SXGA	1280x1024	@60Hz	V	V
		ା Carolina (Carolina (Car	V	V
WSXGA+	1680x1050	@60Hz	V	V
Full HD	1920x1080	@60Hz	V	V
		@85Hz	V	V
		@165Hz	V	V
		@180Hz	V	V
Video Timing Resolution	720P		V	V
	1080P	@60Hz	V	V
		@120Hz	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.

### 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.



Low Blue Light (Software Solution) Flicker Free

www.tuv.com

- 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 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/(5/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



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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 www.msi.com

# 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,  $\mathbb{N}^{\circ}$  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.

### **Copyright and Trademarks Notice**



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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.