

MSI G241V E2 Optix Series Gaming LCD Monitor User Manual

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Revision

- · Revision Date
- V1.1 2020/11

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.

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.

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.

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 the 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 the receiver.
- Connect the equipment to 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.
- 1. **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.
- 2. **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
- 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, which takes effect on August 13, 2005, 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 information on chemical substances in products at: https://www.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://www.msi.com/html/popup/csr/cemm_jp.html
- https://tw.msi.com/html/popup/csr_tw/cemm_jp.html

India RoHS

This product complies with the "India E-waste (Management and Handling) Rule 2016" and prohibits the 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 the 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 of 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

Getting Started

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

IMPORTANT

- The illustrations are for reference only. Your monitor may vary in appearance.
- Do not use any sharp objects on the monitor.

Package Contents

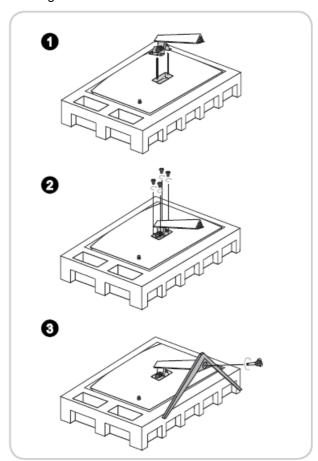
- 1. Monitor
- 2. Stand
- 3. Stand Base with Screw
- 4. Stand Screws x4
- 5. VESA Cover
- 6. Power Adapter & Power Cord
- 7. HDMI Cable (Optional)
- 8. DisplayPort Cable (Optional)
- 9. Quick Start Guide
- 10. Warranty Card
 - Contact your place of purchase or local distributor if any of the items are damaged or missing.
 - Package contents may vary by country.

Installing the Monitor Stand

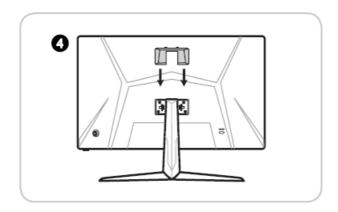
IMPORTANT

Place the monitor on a soft, protected surface to avoid scratching the display panel.

- 1. Align the latches of the stand to the monitor.
- 2. Tighten the stand with the stand screws.
- 3. Connect the base to the stand and tighten the base screw to secure the base.



4. Align the latches to place the VESA cover.



IMPORTANT

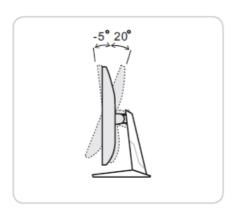
The holes for installing the stand can be also used for a wall mount. Please contact your dealer for a proper wall-mount kit.

Adjusting the Monitor

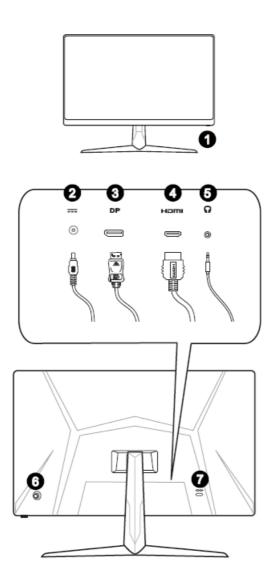
This monitor is designed to maximize your viewing comfort with its adjustment capabilities.

IMPORTANT

Avoid touching the display panel when adjusting the monitor.



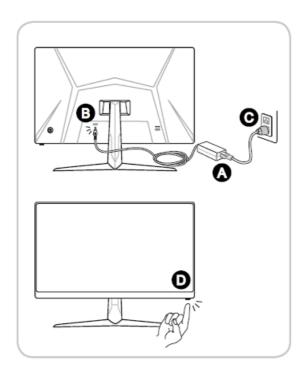
Monitor Overview



- 1. Power Button
- 2. Power Jack
- 3. DisplayPort
- 4. HDMI Port
- 5. Headphone Jack
- 6. Navi Key
- 7. Kensington Lock

Connecting the Monitor to the PC

- 1. Turn off your computer.
- 2. Connect the HDMI/DisplayPort 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 then the monitor will auto-detect the signal source.



OSD Setup

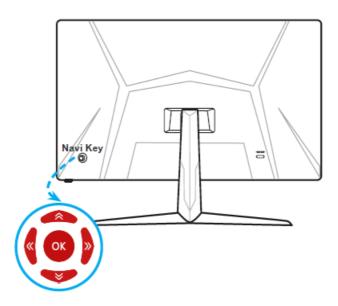
This chapter provides you with essential information on OSD Setup.

IMPORTANT

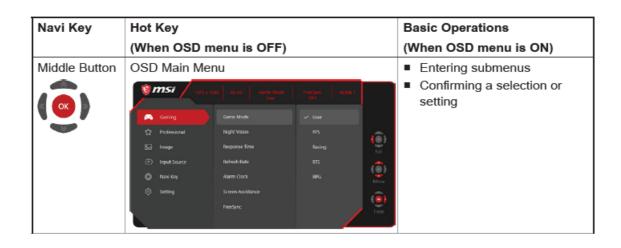
All information is subject to change without prior notice.

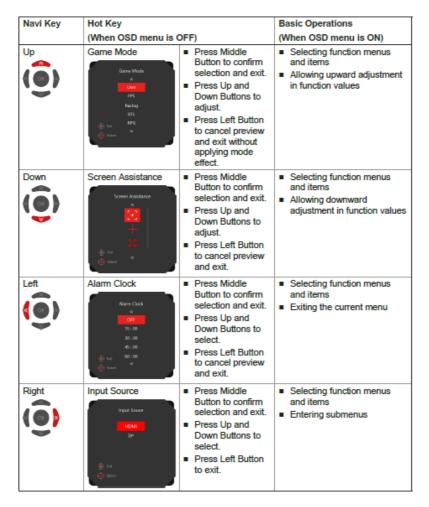
Navi Key

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



The Navi Key default settings are as follows.



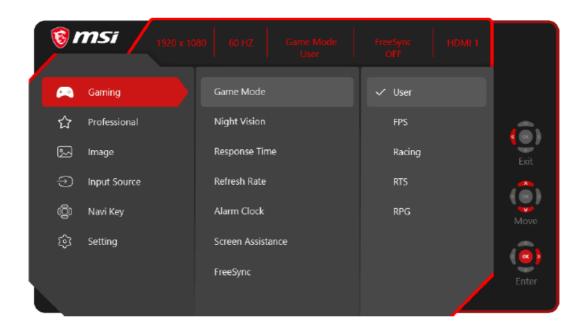


Users may enter the OSD Menu to customize their own Navi Key Hot Keys. More Hot Key options are as below.

Navi Key Hot I	Key Options	Operations
Brightness	Brightness 100 70 100 100 100 100 100 10	 Press Middle Button to save value and exit. Press Up and Down Buttons to adjust. Press Left Button to cancel preview and exit.
Refresh Rate	Refresh Rate O# ≪ ■■ > 0#	 Press Middle Button to confirm selection and exit. Press Right Button to turn on and Left Button to turn off this function.
Information on Screen	Information On Screen Off 《 ■	 Press Middle Button to confirm selection and exit. Press Right Button to turn on and Left Button to turn off this function.

OSD Setup via Navi Key

Press the Middle button of the Navi Key to launch the On-Screen Display (OSD) main menu. Use the Up, Down, Left, and Right buttons to tune the desired function menus to suit your personal preferences.





1st Level Menu	2nd/3rd Level Menu	Description	
	User	All items can be adjusted by users�	
	FPS	All items can be adjusted by users�	
	Racing	All items can be adjusted by users	
Game Mode	RTS	All items can be adjusted by users�	
	RPG	All items can be adjusted by users�	
	 Use Up or Down Button to select and preview mode effects. Press the Middle Button to confirm and apply your mode type. 		
	OFF		
	Normal		
Night Vision	Strong	■ This function optimizes background brightness and i s recommended for FPS games�	
	Strongest		
	AN�I�		
	Normal	■ Users can adjust Response Time in any Mode	
Response Time	Fast	Response Time will be grayed out while Anti Motion Blur is enabled	
	Fastest		

1st Level Menu	2nd/3rd Level Menu	Description
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		Left Top		
	Location	Right Top	■ Users can adjust Refresh Rate in any Mode	
Refresh Rate		Left Bottom	■ Default Refresh Rate Location is Left Top Location is adjustable in OSD Menu Press the Middle Button to confirm and apply your Refresh Rate Location	
Tienesii riate		Right Bottom	■ This monitor follows and works at the Operating Syst em's preset Screen Refresh Rate	
	OFF			
	ON			
		Left Top		
	Location	Right Top		
		Left Bottom		
		Right Bottom	■ Users can adjust Alarm Clock in any Mode	
Alarm Clock	OFF		After setting the time, press the Middle Button to activate the timer	
	15:00		■ Default Alarm Clock Location is Left Top Users can s elect their own location	
	30:00	00.01 00.50		
	45:00	- 00:01~99:59		
	60:00	-		
	None		 Users can adjust Screen Assistance in any Mode Screen Assistance default is None 	
Screen Assistance	Icon	[+] :: +		

	(OFF)	■ FreeSync prevents screen tearing
FreeSync	(ON)	 DisplayPort or HDMI default is OFF and can adjust t o be ON/OFF in any mode, any resolution, any input so urce, and any screen refresh rate Anti Motion Blur will be disabled if FreeSync is enabled

Professional

1st Level Menu	2nd Level Menu	Description	
	User	Default mode All items can be adjusted by users	
	Reader	All items can be adjusted by users	
Pro Mode	Cinema	All items can be adjusted by users	
	Designer	All items can be adjusted by users	
	 Use the Up or Down Button to select and preview mode effects. Press the Middle Button to confirm and apply your mode type. 		
	(OFF)	■ Eye Saver protects your eyes against blue light When enabled Eye Saver adjusts the agree galar temporature to a more	
Eye Saver	(ON)	ed, Eye Saver adjusts the screen color temperature to a more yellow glow Users can adjust Eye Saver in any Mode When Pro Mode is set to Reader, it is mandatory to enable Eye Saver	

1st Level Menu	2nd Level Menu	Description
	(OFF)	■ Users can adjust HDCR in any Mode
HDCR	(ON)	 HDCR enhances image quality by increasing the contrast of images When HDCR is set to ON, Brightness will be grayed out HDCR and Anti Motion Blur cannot be enabled simultaneously
	OFF	
	Weak	■ Image Enhancement enhances image edges to improve th
Image Enhancement	Medium	eir acutance Users can adjust Image Enhancement in 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 Read er mode Brightness will be grayed out when Anti Motion Blur or HDCR is enabled
Contrast	0-100		■ Users can adjust Contrast in any Mode
Sharpness	0-5		 Users can adjust Sharpness in any Mode Sharpness improves the clarity and details of images
	Cool		
	Normal		
	Warm		 Color Temperature default is Normal Use the Up or Down Button to select and preview
Color Temperatur		R (0- 100)	mode effects. ■ Press the Middle Button to confirm and apply your mode type
	Customization	G (0- 100)	■ Users can adjust Color Temperature in Customization mode.
	B (0- 100)	,	
	Auto		■ Users can adjust Screen Size in any mode, any resolution and any screen refresh rate
Screen Size	4:3		
	16:9		■ Default is Auto

Input Source \Longrightarrow

1st Level Menu	2nd/3rd Level Menu	Description
HDMI		Users can adjust the Input Source in any Mode
DP		Osers can adjust the input Source in any Mode

Navi Key

2nd Level Menu	Description
OFF	
Brightness	
Game Mode	
Screen Assistance	■ Up Button default is Game Mode
	■ Down Button default is Screen Assistance
Alarm Clock	■ Left Button default is Alarm Clock
	Right Button default is Input Source
Input Source	■ All Navi Key items can be adjusted via OSD Menu
Refresh Rate	
Information on	
Screen	
	OFF Brightness Game Mode Screen Assistance Alarm Clock Input Source Refresh Rate Information on

Setting 🔯

1st Level Menu	2nd Level Menu	Description
		-

Language	English Français Deutsch Italiano Español Русский Português Ваhasa Indonesia Türkçe (More languages	■ Language factory default is English ■ Users have to press the Middle Button to confirm and apply the Language setting ■ Language is an independent setting Users' own language setting will override the factory default When users set Reset to Yes, Language will not be changed
	(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

	OFF	■ Set to OFF, the monitor will be turned off totally.
Power Button	Standby	■ Set to Standby, only panel and backlight are off, but the mo nitor still can be activated by OS detection, avoiding desk-top i con and screen be refreshed
Information on Scre en	(OFF)	■ The information on the monitor status will be shown on the right side of the screen
	(ON)	■ Users can enable or disable the Information on Screen Default is OFF
Reset	YES	Users can Reset and restore settings to the original OSD
	NO	Default in any Mode

Appendix

IMPORTANT

All information is subject to change without prior notice.

Specifications

Model	Optix G241V (3BA7) Optix G241V E2 (3BA7)
Size	24 inch
Curvature	N/A
Panel Type	IPS
Resolution	1920 x 1080@75Hz
Aspect Ratio	16:9

Brightness (nits)	250 (Typ�)	
Contrast Ratio	1000:1	
Refresh Rate	75Hz	
Response Time	4ms (GTG) (Optix G241V) 1ms (MPRT) (Optix G241V E2)	
Input Interface	HDMI x1, DP x1	
I/O	 ■ HDMI x1 ■ DisplayPort x1 ■ Headphone Out x1 	
View Angles	178°(H) , 178°(V)	
DCI-P3/ sRGB	81�2%/ 102�4%	
Surface Treatment	Anti-glare	
Display Colors	16�7M	
Power Type	External Power	
Adapter Spec�	Model: ADPC2045	
Power Input	100~240Vac, 50~60Hz, 1.5A	
Power Output	20V, 2�25A	
Adjustment (Tilt)	-5° ~ 20°	
Kensington Lock	Yes	

VESA Mounting		 ■ Plate Type: 100 x 100 mm ■ Screw Type: M4x10 mm ▶ Thread Diameter: 4 mm ▶ Thread Pitch: 0 7 mm ▶ Thread Length: 10 mm
Dimension (W x H x D)		540 3 x 422 6 x 219 6 mm
Weight		3 3 kg (net) / 50 kg (gross)
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

Preset Display Modes

	Resolution	Optix G241V (3BA7) Optix G241V E2 (3BA7)	
Standard		НДМІ	DP
	640×480 @60Hz	V	V
VGA	640×480 @67Hz	V	V
VGA	640×480 @72Hz	V	V
	640×480 @75Hz	V	V
	640×350 @70Hz	V	V

DOS			
	720×400 @70Hz	V	V
	800×600 @56Hz	V	V
SVGA	800×600 @60Hz	V	V
SVGA	800×600 @72Hz	V	V
	800×600 @75Hz	V	V
	1024×768 @60Hz	V	V
XGA	1024×768 @70Hz	V	V
	1024×768 @75Hz	V	V
	1152×864 @75Hz	V	V
	1280×720 @60Hz	V	V
SXGA	1280×960 @60Hz	V	V
	1280×1024 @60Hz	V	V
	1280×1024 @75Hz	V	V
WXGA+	1440×900 @60Hz	V	V
WSXGA+	1680×1050 @60Hz	V	V
	1920×1080 @60Hz	V	V

Full HD	1920×1080 @75Hz	V	V
Video Timing Resoluti on	480P @60Hz	V	
	576P @50Hz	V	
	720P @50Hz	V	
	1080P @50Hz	V	
	1080P @60Hz	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).

FAQ's

What is the screen size and resolution of the MSI Optix G241V E2?

The monitor features a 23.8-inch display with a Full HD (1920 x 1080) resolution.

What is the refresh rate of the monitor?

The MSI Optix G241V E2 has a refresh rate of 75Hz.

Does the monitor support AMD FreeSync?

Yes, the monitor supports AMD FreeSync technology, which helps to eliminate screen tearing and stuttering during gameplay.

What is the response time of the monitor?

The monitor has a response time of 4ms, which is suitable for most gaming scenarios.

Does the monitor have built-in speakers?

No, the MSI Optix G241V E2 does not have built-in speakers. You will need to use external speakers or headphones for audio.

What kind of connectivity options are available?

The monitor offers multiple connectivity options, including HDMI and VGA ports.

Does the monitor have VESA mount compatibility?

Yes, the MSI Optix G241V E2 supports VESA mount (100mm x 100mm), allowing you to mount it on compatible monitor arms or wall mounts.

Can the monitor be adjusted for height, tilt, and swivel?

No, the monitor does not have height adjustment or swivel functionality. However, you can tilt the monitor for better viewing angles.

Does the monitor have an adjustable backlight?

No, the MSI Optix G241V E2 does not have adjustable backlighting. The brightness level can be adjusted through the on-screen display (OSD) menu.

Is the monitor compatible with HDR (High Dynamic Range)?

No, the monitor does not support HDR. It has a standard dynamic range (SDR) display.

Does the monitor have an anti-glare coating?

Yes, the MSI Optix G241V E2 features an anti-glare coating, which helps to reduce reflections and glare on the screen.

What is included in the box when purchasing the monitor?

The contents of the box typically include the MSI Optix G241V E2 monitor, a power cable, an HDMI cable, a VGA cable, and a quick start guide. Note that the exact contents may vary by region or retailer, so it's always best to check the product listing or packaging.

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