MONITORS

MAG 321UP QD-OLED





SPECIFICATIONS

Panel Size	31.5"
Active Display Area (mm)	699.48(H) x 394.73(V)
Curvature	Flat
Panel Type	QD-OLED
Panel Resolution	3840x2160 (UHD)
Pixel Pitch (H x V)	0.1814(H) x 0.1814(V)
Aspect Ratio	16:9
Brightness (nits)	250
Contrast Ratio	1500000:1
Signal Frequency	30~390KHz (H) / 48 ~ 165Hz(V)
ACTIVATED RANGE	48 ~ 165Hz
Refresh Rate	165Hz
Response time	0.03ms (GTG)
DYNAMIC REFRESH RATE TECHNOLOGY	AMD FreeSync™ Premium Pro
HDR Support	DisplayHDR True Black 400
Video ports	1x Display Port 1.4a 2x HDMI™ 2.1 (4K@165Hz) 1x USB 2.0 Type-C (DP alt.) w/ 15W PD
Audio ports	1x Headphone-out
Viewing Angle	178°(H) / 178°(V)
Adobe RGB / DCI-P3 / sRGB	97.5% / 99% / 138.2%
Surface Treatment	Anti-Reflection
Display Colors	1.07B, 10 bits
Power Type	Power Cable
Power Input	100~240V, 50/60Hz
Adjustment (Tilt)	-5° ~ 15°
Adjustment (Swivel)	30° ~ 30°
Adjustment (Pivot)	-10° ~ 10°
Adjustment (Height)	0 ~ 110mm
Kensington Lock	Yes
Dimension (W x D x H)	717 x 242 x 457 mm 717 x 72 x 419 mm (without stand)
Carton Dimension (W X D X H)	WW carton: 972 x 185 x 513 mm Outer: 990 x 200 x 538 mm
Frameless Design	Yes
PIP / PBP Function	N/A
VESA Mounting	100 x 100 mm

FEATURES

QD-OLED Display

MSI's renowned QD tech, combined with the latest OLED panel technology, these displays exhibit the best picture quality and incredible high contrast when gaming

165Hz High Refresh Rate

Experience smooth gaming with a blazing fast 165Hz refresh rate, that gives you the upperhand in fast moving games

Fastest 0.03 Response time

Response time is much faster and smoother than conventional LCD displays. The response time is up to 0.03 ms GtG exceeds the most mainstream refresh rates requirements.

OLED Care 2.0

MSI has developed a more advanced version to provide several care services and significantly reduce the chances of OLED screen aging.

Graphene film with Custom Heatsink

Graphene film and customized heatsink designs, the synergy between these two elements enables monitor to operate without an active cooling fan, achieving a fanless design. This ensures efficient and silent heat dispersion, further extending the panel's lifespan.

VESA DisplayHDR True Black 400

It has passed the VESA DisplayHDR True Black 400 Certification, meaning it can provide a display with the most realistic colors.

© 2026 Micro-Star Int'l Co.Ltd. MSI is a registered trademark of Micro-Star Int'l Co.Ltd. All rights reserved.

MAG 321UP QD-OLED

Weight (NW / GW)	9.1kg / 11.8kg
Note	Display Port: 3840 x 2160 (Up to 165Hz) HDMI™: 3840 x 2160 (Up to 165Hz) Type-C (DP alt.): 3840 x 2160 (Up to 165Hz) w/ 15W PD *sRGB and DCI-P3 follow CIE1976 standard
Warranty	3 years (including panel burn-in)

CONNECTIONS



1. AC-in
2. 5-way Joystick Navigator
3. 2 x HDMI ™ 2.1(UHD@165Hz)
4. Display Port 1.4a
5. USB Type-C (PD 15W)
6. Earphone out
7. Kensington lock

Generated 2026-09-30, check for the latest version www.msi.com/datasheet. The information provided in this document is intended for informational purposes only and is subject to change without notice.

© 2026 Micro-Star Int'l Co.Ltd. MSI is a registered trademark of Micro-Star Int'l Co.Ltd. All rights reserved.