BenQ MOBIUZ EX251 Gaming Monitor

Technical Datasheet & Specifications Reference Guide

Display & Visual Performance

Screen Size	24.5 inches
Panel Type / Coating	IPS (In-Plane Switching) / Matte, anti-glare screen coating
Native Resolution	1920 x 1080 (Full HD) at 16:9 aspect ratio
Refresh Rate	220 Hz (via both HDMI and DisplayPort)
Response Time	1 ms Grey-to-Grey (GtG)
Brightness	350 nits typical (400 nits peak in HDR mode)
Contrast Ratio	1000:1 native static contrast ratio
Color Gamut & Support	99% sRGB coverage; supports 16.7 million colors
Viewing Angles / PPI	178° horizontal & vertical / 90 PPI (Pixels Per Inch)

Audio & Connectivity

Built-in Speakers	Dual 2.5W internal speakers
Video Inputs	2x HDMI 2.0, 1x DisplayPort (DP) 1.2
USB Hub	1x USB-C Upstream, 2x USB-A Downstream
Audio Ports	1x 3.5mm Headphone Jack

Core Technologies & Intelligence

AI Processing	BenQ proprietary AI-Powered PixSoul Engine and Smart Color AI
Variable Refresh Rate	AMD FreeSync premium technology for tear-free gaming
HDR Support	HDR10 and VESA DisplayHDR 400 certified with custom HDRi optimization
Eye-Care Suite	TÜV Rheinland certified Flicker-Free, Low Blue Light, and Brightness Intelligence Plus (B.I.+ Gen2)
Software Integration	Color Shuttle preset sharing, Scenario dynamic display mapping

Physical, Power, & Environmental

Ergonomics	Tilt-only adjustment (-5° down to 20° up); lacks stand height adjustment
Wall Mounting	VESA 100 x 100 mm mounting pattern
Dimensions & Net Weight	428.78 mm x 557.70 mm x 211.74 mm / 4.17 kg
Power Supply & Draw	Built-in power block (100–240V AC) / 18W typical, 55W max, <0.5W sleep
Sustainability	Constructed using 85% Post-Consumer Recycled (PCR) plastic; 100% recyclable packaging