BenQ EW2790U Technical Datasheet

27" 4K UHD Premium Entertainment & Business Monitor Specifications

Display & Video Performance

Screen Size	27 inches (68.6 cm diagonal)
Panel Type	Flat IPS (In-Plane Switching) with anti-glare matte coating
Native Resolution	3840 x 2160 pixels (4K UHD) @ 60 Hz
Aspect Ratio	16:9
Pixel Density	163 PPI (0.156 mm dot pitch)
Brightness	350 nits (typical) | 400 nits (HDR Peak)
Contrast Ratio	1000:1 (static)
Color Gamut	95% DCI-P3 / 99% sRGB coverage
Color Depth	1.07 billion colors (10-bit color depth)
Response Time	5ms (Gray-to-Gray)
Viewing Angles	178° horizontal / 178° vertical
HDR Support	VESA DisplayHDR 400, HDR10, Cinema HDRi, Game HDRi

Audio & Smart Features

Built-in Speakers	Dual 5W treVolo stereo speakers
Audio Modes	6 preset modes (Game, Cinema, Dialog, User, Live/Pop, Studio)
AI Contrast	Dynamically optimizes picture contrast based on on-screen content.
Scenario Hotkey	Quick-access button to swap preset monitor settings for work, gaming, or media.
Eye Care Suite	TÜV Rheinland certified Flicker-free, Low Blue Light Plus, Brightness Intelligence Plus Gen2 (B.I.+ Gen2) ambient light tracking, and Color Weakness modes.

Connectivity & Ports

Video Inputs	3 x HDMI 2.0
USB-C Power Delivery	1 x USB Type-C (Supports DisplayPort Alt Mode, data transmission, and 65W Power Delivery to power a laptop)
USB Hub (Downstream)	3 x USB 3.2 Gen 1 Type-A (5 Gbps, 7.5W power charging) 1 x USB Type-C (5 Gbps, 7.5W power charging)
Audio	1 x 3.5mm Headphone Jack

Design, Ergonomics & Dimensions

Cabinet Color	White
Height Adjustment	110 mm
Tilt Range	-5° to +20°
Swivel Range	±20°
Pivot (Rotation)	90° (supports portrait orientation)
Wall Mounting	VESA 100 x 100 mm compliant
Landscape Dimensions	427.4 to 536.9 mm x 614.2 mm x 211.2 mm (HxWxD)
Portrait Dimensions	630.0 to 667.5 mm x 387.8 mm x 211.2 mm (HxWxD)
Without Stand Dimensions	387.8 mm x 614.2 mm x 67.7 mm (HxWxD)
Weight	7.7 kg (with stand) | 5.6 kg (without stand)

Power Consumption

Power Supply	Internal/Built-in (AC 100 - 240 V)
Typical Consumption	25W
Maximum Consumption	180W (utilizing full USB-C Power Delivery)
Sleep Mode	0.5W