BenQ GW2490C Technical Datasheet

23.8" Full HD Eye-Care Home Office Monitor featuring 144Hz Refresh Rate and USB-C

Display & Visual Performance

Screen Size:	23.8 inches (Matte coating)	**Panel Type:**	IPS (In-Plane Switching)
Max Resolution:	Full HD 1920 x 1080 pixels	**Max Refresh Rate:**	144 Hz
Response Time:	5 ms GtG (Grey-to-Grey)	**Brightness:**	250 nits (cd/m²)
Native Contrast Ratio:	1500:1	**Color Gamut:**	99% sRGB coverage
Aspect Ratio:	16:9	**Viewing Angles:**	178° horizontal / 178° vertical
Display Colors:	16.7 Million colors	**Pixel Pitch / PPI:**	0.274 mm / 93 PPI

Connectivity & Ports

USB-C:	1x port (Supports DisplayPort Alt Mode & data; no Power Delivery)	**HDMI:**	1x HDMI 1.4 port
DisplayPort:	1x DisplayPort 1.2 port	**Audio Out:**	1x 3.5mm Headphone Jack
HDCP Version:	1.4 supported		

Audio & Power

Built-in Speakers:	Dual 2W stereo speakers (2W x 2)	**Power Supply:**	100-240V internal built-in adapter
Typical Consumption:	20 W	**Maximum Consumption:**	30 W
Power Saving Mode:	< 0.5 W		

Physical & Mechanical Properties

Tilt Adjustment:	-5° to +20°	**VESA Wall Mount:**	100 x 100 mm interface
Dimensions w/ Base:	410 mm x 540 mm x 207 mm	**Net Weight:**	3.5 kg
Bezel Design:	4-sided ultrathin frame structure		

Eye-Care & Smart Features

Certifications:	TÜV Rheinland 5-Star Eye Comfort, Eyesafe 2.0
Visual Optimizer (V.O.):	Integrated ambient light sensor automatically tracks surrounding lighting to adapt display intensity and color temperature balance.
Flicker-Free Tech:	Eliminates backend strobe flickering to relieve headaches and fatigue.
Low Blue Light Plus:	Shields harmful blue-violet emissions while fully preserving natural accurate color palettes.
Special Modes:	ePaper mode for comfortable reading text layouts, Care mode, and Game mode.
Software Support:	Compatible with BenQ's Eye-CareU application desktop configuration interface.