Datasheet

HyperX OMEN 23.8 inch FHD 240Hz Gaming Monitor - OMEN 24 G3

Game Mode: On

When it's time to bring your A-game, the HyperX OMEN 24 G3 Gaming Monitor makes it happen. With a fast 240 Hz refresh rate and 1ms response time, you get more speed, more clarity, and nonstop action[1]. See your games the way they were meant to be seen with factory color calibration, then get personalized settings recommendations with OMEN AI and customize your experience through OMEN Gaming Hub[2].



*Product image may differ from actual product

240HZ

Frames where it counts

When things move fast, HyperX OMEN 24 G3 brings every move into view. Catch every opening with a 240 Hz refresh rate, 1ms response time, and thanks to OMEN AI, get personalized settings recommendations to help achieve your best possible FPS for smooth, fast-moving gameplay. While NVIDIA G-Sync ™ compatibility keeps frames synced and screen tearing out of the way[1].

Made to draw you in

From lobbies to open worlds, accurate color on-screen is enhanced by factory color calibration, delivering visuals that stay true to life throughout every game. For longer play, HP Eye Ease with Eyesafe® Certification helps keep extended sessions more comfortable with reduced blue light[1].

OMEN GAMING HUB

Even Better With OMEN Gaming Hub

Personalized control starts with OMEN Gaming Hub. Easily adjust contrast and display settings, then create custom profiles tailored to how you play. Everything you need for a clean, connected setup[2].

Sustainability in action

Designed with Purpose

This gaming monitor is thoughtfully designed with at least 85% post-consumer recycled plastic content in monitor's enclosure[3], contains 20% recycled glass in monitor's panel[4] and packaging with certified or recycled sources of paper[5].

NVIDIA G-SYNC eyesafe CERTIFIED 2.0 OMEN GAMING HUB VESA CERTIFIED ClearMR VESA CERTIFIED AdaptiveSync

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Featuring

FHD & 23.8"
Focus on the finer details and enjoy clear images with the 1920 x 1080 Full HD resolution on this 23.8" diagonal monitor.[6]

IPS Panel
No matter where you stand, IPS panel delivers clear, vivid images with 178-degree wide-viewing angles, so everyone can get a great view.

240 Hz Refresh Rate
For crisp action and responsive gameplay, this fast refresh rate practically removes all artifacting and motion blurring .[1]

1ms GtG Response Time
How fast your pixels can react to changing frames is critical for fast-paced gaming, and a 1ms GTG response time ensures even the most action-packed moments are fluid, crisp, and free of motion blur.[1]

NVIDIA G-SYNC™ compatible
Enjoy variable refresh rates with NVIDIA G-SYNC™ compatibility, tested and certified to deliver gameplay that is sharp, fluid, and stutter-free with minimal input lag.[3]

VESA ClearMR
Clear Motion Ratio (CMR), provides a clear numerical value based on the ratio of clear pixels to blurry pixels, which allows you to easily compare the amount of motion blur between VESA Certified ClearMR displays.[7]

1000:1 Contrast Ratio
Experience amazing clarity delivered by a 1000:1 contrast ratio for deeper blacks, brighter whites, and crisper colors.[1]

99% sRGB
Get deeper hues and a wide array of colors with 99% sRGB for precisely recreated colors so lifelike you get lost in your gameplay.[1]

Factory Color Calibration
Fuel your creativity with a monitor that supports your vision, with Factory Color Calibration for color accuracy, so you can see your games the way the devs intended.[1]

Plenty of ports
Easily connect to your gaming and work PCs, console, and headset with one HDMI 2.0 ports, one DisplayPort™ 1.4, and one 3.5 mm headphone jack.

Adjustable stand
Make your desk just how you like it with the adjustable stand. Find your ideal viewing angle with tilt adjustment, or remove the stand for VESA mounting (100 x 100 mm).

Joystick OSD Button
In the middle of gameplay, it's never been easier to configure your display settings right from the monitor. Quickly navigate the on-screen menu with the OSD button to adjust brightness, contrast ratio, and color.

Integrated Cable Management
Cord and wire pass-through located on the display stand reduces cord-clutter and helps keep your workspace clean and organized.

HP Eye Ease with Eyesafe® Certification
Built right into the display, with no need to adjust settings or worry about a compromised color experience, HP Eye Ease with Eyesafe® Certification provides beautiful color while reducing blue light to keep your screentime comfortable.

OMEN AI
OMEN AI provides personalized settings tailored to your unique hardware and games, eliminating the guesswork so you can focus on what matters most, gaming.

OMEN Gaming Hub
OMEN Gaming Hub is your one place for everything to make your gaming experience better. Enjoy software enhancements to hardware control, and live services.[2]

Compatible with Consoles
This gaming monitor underwent over 140 test cases to ensure it's compatible with your choice of console. Just connect the HDMI and get right to playing.

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Specifications

Display specifications

Display size	60.5 cm (23.8")
Viewable diagonal size	23.81" (60.48 cm)
Aspect ratio	16:9[1]
Curvature	Flat
Native resolution	FHD (1920 x 1080)[1,2]
Resolution (maximum)	FHD (1920 x 1080 @ 240 Hz)[1]
Resolutions supported	640 x 480 @ 60 Hz; 640 x 480 @ 75 Hz; 720 x 400 @ 70 Hz; 800 x 600 @ 60 Hz; 800 x 600 @ 75 Hz; 1024 x 768 @ 60 Hz; 1024 x 768 @ 75 Hz; 1280 x 720 @ 60 Hz; 1280 x 800 @ 60 Hz; 1280 x 1024 @ 60 Hz; 1280 x 1024 @ 75 Hz; 1440 x 900 @ 60 Hz; 1600 x 900 @ 60 Hz; 1680 x 1050 @ 60 Hz; 1920 x 1080 @ 60 Hz; 1920 x 1080 @ 120 Hz; 1920 x 1080 @ 165 Hz; 1920 x 1080 @ 240 Hz (DisplayPort only); 1920 x 1080 @ 200 Hz (HDMI only)
Panel type	IPS; LED
Bezel	3-sided borderless
Panel active area	52.70 x 29.65 cm
Panel bit depth	8 bit (6 bit + FRC)[1]
Display colors	Up to 16.7 million colors supported[1,11]
Display color gamut	99% sRGB[1]
Calibrated color presets	99% sRGB
Color calibration features	Factory color calibration
Refresh rate (maximum)	240 Hz[1]
Display scan frequency	50-240 Hz (Vertical)[1]; 30-320 kHz (Horizontal)[1]
Response time	1ms GtG (with overdrive)[1]
Brightness	300 nits[1]
Contrast ratio	1000:1 (Static)[1] 5,000,000:1 (Dynamic)[1]
Pixel pitch	0.2745 x 0.2745 mm[1]
Pixels per inch (ppi)	93 ppi
Viewing angle	178° (Vertical) 178° (Horizontal)
Backlight type	Edge-lit
Backlight lamp life	30,000 hours
Display User Control Options	Brightness+; Color; Image; Input; Power; Menu; Management; Information; Exit; Gaming
Management software	OMEN Gaming Hub
User updateable firmware	No
Low blue light modes	HP Eye Ease (Eyesafe® certified)[1]
Flicker-free	Yes
Screen treatment	Anti-glare
Hardness	3H[1]
Haze	25%
VESA mount	100 x 100 mm
Adjustability	Tilt: -5 to +23°
Camera	No integrated camera
Languages	11 (English, Spanish, German, French, Italian, Dutch-Netherlands, Portuguese, Japanese, T-Chinese, S-Chinese and Russian)
Special features	AMD FreeSync™ Premium; Gaming Console Compatible; VESA Certified AdaptiveSync; VESA ClearMR 6000 certified; NVIDIA® G-SYNC® Compatible[1]

Connectivity and communications

Port and connectors	1 HDMI 2.0 1 DisplayPort™ 1.4 1 x 3.5 mm Audio Jack (Audio Out)
HDCP	Yes, DisplayPort™ and HDMI
Power supply	100 - 240 VAC 50/60 Hz (Internal)
Power consumption	26 W (maximum); 15 W (typical)[5]

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Specifications

Appearance

Product color	Black
Stand color	Black
Detachable stand	Yes
Base area footprint	20.39 x 18.89 cm
Dimensions without Stand (W x D x H)	54.16 x 4.94 x 32.26 cm (without stand)
Dimensions with stand (W x D x H)	54.16 x 20.39 x 39.87 cm
Weight	3.31 kg (with stand); 2.86 kg (without stand)
Packaged Dimensions (W x D x H)	64 x 14 x 40.5 cm
Packaged weight	6.38 kg

Certification and compliance

Energy efficiency class (SDR)	D 
On mode power demand in Standard Dynamic Range (SDR)	14 W[5]
Standby mode power demand	0.5 W[5]
Ecolabels	CEL Grade 1; California CEC
Sustainable impact specifications	At least 85% post-consumer recycled plastic; Contains 20% recycled glass in the monitor panel; Molded paper pulp cushion and folded corrugated cushion inside box are made of 100% recycled or certified sources; Outside box and corrugated cushions are made of 100% recycled or certified sources[9,10]
Certifications	Australian-New Zealand MEPS; BSMI; CB; CCC; CE; CEL; cTUVus; FCC; ISO 9241-307; KC; KCC; NOM; RCM; TUV Bauart; VCCI; WEEE; ICE; Korea MEPS; UL
Microsoft WHQL certification	Windows 11[6]
Environmental	Operating temperature range: 5 to 35°C Non-operating temperature range -40 to 65°C Operating humidity: 20 to 60% RH (non-condensing) Non-operating humidity: 5 - 95% Operating altitude: Up to 5,000 m Non-operating altitude: Up to 12,192 m

Additional information

Part Number	P/N: DL2G0AA#ABB:; #A2N; #ABT; #ABU; #ABV; #ABY; #ACQ; #UUG; #UUZ; UPC code: (ABB) 826581225942; (ABU) 826581225973
Manufacturer Warranty	1 year (1/1/0) limited warranty includes 1 year of parts and labor. No on-site repair. Terms and conditions vary by country. Certain restrictions and exclusions apply. [4]
What's in the box	Monitor; Warranty card; Quick Setup Poster; Vertical stand; Stand base; AC power cable (1.83 m); DisplayPort™ 1.4 cable (1.8 m)[3]
Country of origin	Made in China

Logistic information

Pallet Dimensions (L x W x H)	Slip sheet: 120 x 100 x 204.3 cm (20 ft, 40 ft), 120 x 100 x 245.1 cm (40 HQ) Pallet: 120 x 100 x 216.8 cm
Pallet weight	Slip sheet: 385 kg (20 ft, 40 ft), 462 kg (40 HQ) Pallet: 396 kg (20 ft, 40 ft, 40 HQ)
Pallet (layers)	Slip sheet: 5 layers (20 ft, 40 ft), 6 layers (40 HQ); Pallet: 5 layers (20 ft, 40 ft, 40 HQ)
Products per layer	12
Products per pallet	Slip sheet: 60 sets (20 ft, 40 ft), 72 sets (40 HQ); Pallet: 60 sets (20 ft, 40 ft, 40 HQ)

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Product walkaround



1. Power LED



2. Power button
3. Joystick OSD
4. Power connector
5. HDMI 2.0 port
6. DisplayPort™ 1.4
7. 3.5 mm headphone jack

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Footnotes

Messaging Footnotes

[1] All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary, either higher or lower.
[2] Account required for full functionality. See OMEN Gaming Hub terms and conditions. Support level for non-HP products may be subject to change. Some animation effects may consume more CPU resources.
[3] Recycled plastic is expressed as a percentage of the total weight plastic. Post-consumer recycled is based on the definition set in the EPEAT criteria.
[4] Percentage of recycled glass in the monitor panel varies by product. Recycled glass is expressed as a percentage of the total weight of the glass.
[5] Packaging parts contain certified or recycled fibers and are typically recycled in your local paper/carton recycling bin, consult your local guidelines. Recycling facilities not available in all locations.
[6] Full high-definition (FHD) content required to view FHD images.
[7 VESA Certified ClearMR is the high-performance Monitor and Display Compliance Test Specification from VESA that provides a clear numerical value based on the ratio of clear pixels to blurry pixels. See https://www.clearmr.org/ for more details.

Technical Specifications Footnotes

[1] All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary, either higher or lower.
[2] DisplayPort™ 1.4 or HDMI 2.0 required to drive panel at its native resolution. The video card of the connected PC must be capable of supporting 1920 × 1080 at 60 Hz with 8-bit color using one DisplayPort™, HDMI.
[3] Included cables may vary by country.
[4] Please refer to the warranty card supplied with the product for details. Warranty may vary by country as required by law. Go to hp.com/support to learn about HP award winning service and support options in your region.
[5] Maximum brightness and contrast setting with maximum power loading on USB downstream ports (for power consumption maximum); Factory default brightness and contrast setting with 25% power loading on USB downstream ports (for power consumption typical).
[6] Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows is automatically updated and enabled. High speed internet and Microsoft account required. ISP fees may apply and additional requirements may apply over time for updates. See http://www.windows.com.
[7] EPEAT registered where applicable. EPEAT registration varies by country. See www.epeat.net for registration status by country. Based on US registration according to EPEAT criteria and EPEAT Climate+. Status and tier level varies by country. Visit www.epeat.net for more information.
[8] Host PC requires Windows 10. OMEN Gaming Hub is available on the Microsoft store.
[9] Recycled plastic is expressed as a percentage of the total weight plastic. Post-consumer recycled is based on the definition set in the EPEAT criteria.
[10] Packaging parts contain certified or recycled fibers and are typically recycled in your local paper/carton recycling bin, consult your local guidelines.
[11] Number of colors through A-FRC technology.

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