

HP 24x 23.8-inch Monitor

144Hz Gaming Monitor with Adaptive Sync



Display your gaming skills. A fast, vibrant display with gaming essentials.

Enjoy faster, smoother action thanks to a 144Hz refresh rate and AMD FreeSync™ technology. This Full HD, 23.8-inch display with built-in speakers brings all your entertainment up a notch.

Product overview

- **The speed you need:** Ensure even the most action-packed moments are smooth, crisp, and free of motion blur with a 144Hz refresh rate and 1ms response time.⁽²⁾⁽³⁾
- **Crystal-clear gaming:** Adaptive-Sync technology creates a direct link between the graphics card and the monitor— removing the fear of tearing and blurring that would impact your game. This allows the display to work with NVIDIA® or AMD graphics.⁽⁹⁾
- **More comfortable immersion:** Micro-edge bezel design delivers a more immersive viewing experience and integrated speakers provides high-quality sound. Height, tilt, swivel, and pivot adjustments allow for optimal comfort while gaming.

Product features

- **144Hz refresh rate:** Get smooth gaming, sharper objects, and cleaner details with a gaming display that refreshes frames 144 times a second – over twice the refresh rate of standard displays.⁽³⁾
- **1ms response time with overdrive:** Eliminates motion blur for crisp, fluid gameplay no matter what's happening on-screen.
- **Height adjustment stand:** Gas piston design allows 100mm of smooth, precise height adjustment so your display is always in the most comfortable position, no matter who is viewing it.
- **Micro-edge display:** With virtually no bezel encircling the display, an ultra-wide viewing experience provides for seamless multi-monitor set-ups.
- **Integrated speakers:** No need to buy external speakers for great audio. With integrated speakers this display is ready to go once you're connected.
- **Included headphone jack:** Conveniently located within reach, the headphone jack lets you easily plug in your headphones for a more lifelike experience.
- **AMD FreeSync™ technology:** See and feel the difference of fluid, responsive gameplay. By synchronizing the refresh rate with your GPU, AMD FreeSync™ makes display stutter, input lag, and screen tears ancient history.⁽⁴⁾
- **TN panel:** Low pixel latency and snappy response times with this TN panel.
- **Low blue light:** Using the Low blue light mode subtly shifts your display's colors to a warmer spectrum, while making whites more natural and putting less strain on your eyes.

Key specifications

- **Viewable image area:** 23.8-inch display, diagonally measured
- **Aspect ratio:** 16:9
- **Contrast:** Dynamic Ratio 12M:1⁽²⁾
- **Maximum resolution:** 1920 x 1080 @ 144 Hz⁽¹⁾
- **Connectivity:**
 - 1 x HDMI
 - 1 x DisplayPort™
- **Exterior color:** Black
- **Sound:** Dual speakers

Environmentally conscious

- Energy efficient design and components help reduce power consumption and energy costs.

Warranty and support

- Peace-of-mind coverage: Rest easy and work confidently with an HP standard 1 year limited warranty. Certain restrictions and exclusions apply.⁽⁷⁾



Monitor specifications

Panel type	• TN
Visible screen size	• 23.8-inch diagonally measured
Viewing angle	• Horizontal: 170 degrees • Vertical: 160 degrees
Surface treatment	• Anti-glare
Native resolution	• 1920 x 1080 @ 60Hz ⁽¹⁾
Maximum resolution	• 1920×1080 @ 144 Hz (HDMI) • 1920×1080 @ 60 Hz (VGA)
Panel bit depth	• 8-bit (6 Bits + Hi_FRC)
Aspect ratio	• 16:9
Contrast ratio	• 700:1 static • 1000:1 typical • 12,000,000:1 dynamic ⁽²⁾
Brightness (typical)	• 250 nits ⁽³⁾
Color gamut	• NTSC 72%
Low blue light mode	• Yes
Pixel pitch	• 0.2745 x 0.2745 mm • 93 PPI
Panel active area	• 527.04 mm x 296.46 mm
Scan range	• Horizontal: 30-167 kHz • Vertical: 48-144Hz
Response time	• 5ms on/off ⁽³⁾ • 1ms w/OD
Connectivity	• HDMI 1.4 • DisplayPort 1.2™ • HDCP support (DP and HDMI) • Audio output
Power supply	• Internal
Power consumption	• Typical 32W • Maximum 44W
Energy saving/standby mode	• <0.5W
Tilt	• -3.5 to + 21.5 degrees
Pivot	• 90 degrees
Swivel	• 360 degrees
Height adjustable base	• 0-100 mm range
Base area footprint	• 9.05 in x 8.6 in • 230 mm x 218 mm
Detachable base	• Yes
VESA mounting	• 100mm with included bracket
Security lock ready	• Yes
Unpackaged dimensions	• 21.3 in (W) x 8.6 in (D) x 14.95 in (H) • 54.08 cm (W) x 21.8 cm (D) x 37.99 cm (H)
Unpackaged weight	• 13.45 lb • 6.1 kg
Packaged dimensions	• 25.6 in (W) x 7.87 in (D) x 15.35 in (H) • 65 cm (W) x 20 cm (D) x 39 cm (H)

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⁽¹⁾ Full high-definition (FHD) content required to view FHD images. ⁽²⁾ Dynamic Contrast Ratios during video playback only, depending on series of frames or time duration. ⁽³⁾ All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower. ⁽⁴⁾ FreeSync™ is only available when it is connected on DisplayPort or HDMI. FreeSync is an AMD technology is enabled on FHD or QHD displays and is designed to eliminate stuttering and/or tearing in games and videos by locking a display's refresh rate to the frame rate of the graphics card. AMD Radeon Graphics and/or AMD A-Series APU-compliant monitors with DisplayPort/HDMI Adaptive-Sync required. AMD 15.11 Crimson driver (or newer) required to support FreeSync over HDMI. Adaptive refresh rates vary by monitor. More information is available at www.amd.com/freesync. ⁽⁵⁾ Arsenic and its compounds were not detected using U.S. EPA test methods 3052/6010b by ICP-AES with a Method Detection Limit of 10 ppm. ⁽⁶⁾ External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen. ⁽⁷⁾ Warranty may vary by country. See www.hp.com/go/support for details. ⁽⁸⁾ DisplayPort 1.2 or HDMI 1.4 required to drive panel at its native resolution. ⁽⁹⁾ Compatible with both NVIDIA® G-SYNC™ and AMD FreeSync™ Technology graphics cards. © Copyright 2019 HP Development Company, L.P. The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing shall be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein. Actual product may vary from image shown 07/19_r4 tg

Packaged weight	• 17.20 lb • 7.8 kg
On screen display	• Brightness +, Color, Image Input, Power, Menu, Management, Volume control, Information
User programmable modes	• User programmable modes: 20 • Monitor control buttons: Menu, Minus ("−")/Brightness, Plus ("+") /Viewing Mode, OK/Input Control, Power • User assignable function buttons: 3 with 7 options
Languages	• 10 (English, Spanish, German, French, Italian, Netherlands, Portuguese, Japanese, T-Chinese and S-Chinese)
Certifications	• Microsoft WHQL Certification: Win 10 R55, Win 8/8.1, Win 7

Speaker specifications

Type	• Dual integrated speakers
Output power	• 2W per channel

Environmental features

LED backlights	• Mercury-free LED backlighting
Backlight lamp life	• 30K hours
Arsenic-free	• Arsenic-free display glass ⁽⁵⁾
Low halogen	• Low halogen design ⁽⁶⁾

Accessories & warranty

What's in the box	• A/C power cable (1.83m) 6 ft • HDMI cable (1.8m) 5.9 ft • Product notice • Warranty card
Agency approvals	• WW application • CE, CB, KC/KCC/e-standby/BIS/ICE/TUV-Bauart/ISO 9241-307/EUP • Lot6/cTUVus/CCC/CEL/PSB/ISC/EAC/UkrSEPRO/Mexico • MEPS/Low Blue Light/VCCI/FCC/C-tick/BSMI/Vietnam • MEPS/Australian-New Zealand MEPS/South Africa MEPS/Ukraine • Energy label/CEC/WEEE
Limited warranty	• Protected by a one-year HP limited warranty. Certain restrictions and exclusions apply. ⁽⁷⁾

Additional information

Product number	• 5ZU98AA#ABA
Ad embargo date	• 10/06/2019
UPC Code	• 193424944040
Country of origin	• China
Tariff number	• 8528521000
Pallet information	• Dimensions: 41.65 in x 41.65 in x 4.72 in • Total weight: 721.3 lb / 327 kg • Layers: 5 • Products per layer: 8 • Total products per pallet: 40

