

ProductSheet

# OMEN by HP 23.8 inch FHD 165Hz Gaming Monitor - OMEN 24 (780F0AA)



## TAKE YOUR FUN UP A NOTCH

Reach new possibilities with the OMEN by HP 23.8-inch FHD 165Hz Gaming Monitor. Quick performance and vibrant color let you get lost in the games you love most, while the sleek design functions to look and feel great on your desk.



### NO LAG. ALL SPEED.

Frame by frame, experience all the action with no distractions. To keep things smooth, this display boasts a fast 165Hz refresh rate and 1ms GTG response time with Overdrive to cut motion blur<sup>[1]</sup>, so every pixel keeps up with you. Leave screen tearing and lag in the dust, thanks to AMD FreeSync™ Premium technology<sup>[2]</sup>.

### SEE A WORLD YOU CAN STEP INTO

Mistake virtual for IRL while you explore your favorite worlds. For lifelike gameplay, escape into a wide array of vibrant colors, hues, and shades with the 99% sRGB and 90% DCI-P3 color gamut<sup>[1]</sup>. Focus on the finer details from any angle, thanks to Full HD resolution<sup>[3]</sup> and IPS panel technology.

### REFINE YOUR PLAY SPACE

Made to impress in and out of game, the new OMEN look blends sophistication and fun to elevate what a gaming setup can look like. It's equipped with ports perfect for connecting your gaming PC, console, and even a work PC. Thanks to the easy cable management and the adjustable stand, your desk will be just how you like it.

## Featuring

### FHD Resolution

Focus on the finer details and enjoy clear images with the 1920 x 1080 Full HD resolution on this 23.8" diagonal monitor.<sup>[3]</sup>

### 165Hz refresh rate

Crisp action and responsive gameplay with virtually no artifacting or screen tearing.<sup>[1]</sup>

### More Colors to Play With

Get deeper hues and a wide array of colors with 99% sRGB and 90% DCI-P3 for precisely recreated colors so lifelike you get lost in your gameplay.<sup>[1]</sup>

### 1ms GTG Response Time with Overdrive

Eliminates motion blur for crisp, fluid gameplay no matter what's happening on-screen.<sup>[1]</sup>

### AMD FreeSync™ Premium Technology

Game confidently with a high refresh rate, low framerate compensation, and low latency.<sup>[2]</sup>

## Specifications

<b>Display size (diagonal)</b>	23.8"
<b>Panel technology</b>	IPS
<b>Display size (diagonal)</b>	60.5 cm (23.8")
<b>Aspect ratio</b>	16:9 <sup>[1]</sup>
<b>Native resolution</b>	FHD (1920 x 1080) <sup>[1,2]</sup>
<b>Resolutions supported</b>	640 x 480; 720 x 400; 800 x 600; 1024 x 768; 1280 x 720; 1280 x 800; 1280 x 1024; 1440 x 900; 1600 x 900; 1680 x 1050; 1920 x 1080
<b>Pixel pitch</b>	0.28 x 0.28 mm
<b>Brightness</b>	300 nits <sup>[1]</sup>
<b>Contrast ratio</b>	1000:1 <sup>[1]</sup>
<b>Response time (typical)</b>	1ms GtG (with overdrive) <sup>[1]</sup>
<b>Minimum dimensions (W x D x H)</b>	53.94 x 5.2 x 32.15 cm (without stand)
<b>Minimum dimensions (W x D x H)</b>	21.24 x 2.05 x 12.66 in (without stand)
<b>Dimensions With Stand (W x D x H)</b>	53.94 x 19.83 x 46.53 cm
<b>Weight</b>	6.35 kg (with stand)
<b>Weight</b>	14 lb (with stand)
<b>Display features</b>	On-screen controls; Pivot rotation; Anti-glare; Height adjustable; AMD Freesync™ Premium; Gaming Console Compatible; HP Eye Ease (Eyesafe® certified)
<b>Onscreen controls</b>	Management; Information; Exit; Input; Color; Image; Power; Menu; Gaming
<b>Display colors</b>	Up to 16.7 million colors supported
<b>Display scan frequency (horizontal)</b>	30-210 kHz
<b>Display scan frequency (vertical)</b>	60-165 Hz
<b>Camera</b>	No integrated camera
<b>Power</b>	100 - 240 VAC 50/60 Hz
<b>Power consumption</b>	35 W (maximum), 25 W (typical), 0.5 W (standby)
<b>Operating temperature range</b>	5 to 35°C
<b>Operating humidity range</b>	20 to 80% RH
<b>Sustainable impact specifications</b>	Low Halogen; Molded paper pulp cushion inside box is 100% sustainably sourced and recyclable; Outside box and corrugated cushions are 100% sustainably sourced and recyclable; 85% ITE-derived closed loop plastic
<b>Certifications and compliances</b>	Australian-New Zealand MEPS; BIS; BSMI; CB; CCC; CE; CEL; CSA; EAC; FCC; ISO 9241-307; KC/KCC; NOM; PSB; TUV Bauart; TUV LBL; VCCI; Vietnam MEPS; WEEE; ISC; California Energy Commission (CEC); WW application; ICE; Ukraine certificates; TÜV Flicker free certified; UAE safety; UAE RoHS; South Africa safety; Microsoft WHQL Certification (Windows 11 and Windows 10)
<b>Physical security</b>	None
<b>Management Software</b>	OMEN Gaming Hub
<b>UPC number</b>	(AZK) 197029614506; (AB0) 197029614520; (AB1) 197029614544; (AB2) 197029614568; (AB4) 197029614582; (ABG) 197029614599; (ABJ) 4573595845586; (ACJ) 197029614629; (AKL) 197029614643; (AR6) 197029614650; (UUF) 197029614674
<b>What's in the box</b>	Monitor; DisplayPort™ cable; Warranty card; Quick Setup Poster; AC power cord <sup>[7]</sup>

## Top Recommended Displays, Accessories and Services

No Top Recommended Displays, Accessories and Services

## 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] Requires a monitor and AMD Radeon graphics, both with FreeSync Premium support. AMD FreeSync™ Premium requires mandatory low framerate compensation and at least 120 Hz refresh rate at minimum FHD. See [www.amd.com/freesync](http://www.amd.com/freesync) for complete details. Confirm capability with your system manufacturer before purchase. GD-161.

[3] Full high-definition (FHD) content required to view FHD images.

## Technical Specifications Footnotes

[1] All 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 x 1080 at 60 Hz with 8-bit color using one DisplayPort™, HDMI. The video card of the connected PC must be capable of supporting 1920 x 1080 and include one DisplayPort™ or one HDMI outputs to drive the monitor at the Preferred Mode.

[7] Included cables may vary by country.

---

© Copyright 2023 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 herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

DisplayPort™ is a trademark owned by the Video Electronics Standards Association (VESA®) in the United States and other countries. USB Type-C® and USB-C® are registered trademarks of USB Implementers Forum. Microsoft, Encarta, MSN, and Windows are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

