



# OMEN X Emperium 65 Big Format Gaming Display

Massive 163.8 cm (64.5") display optimized for gaming

Brace for impact—because at-home gaming and entertainment will never be the same. With stunning 4K<sup>1</sup> HDR visuals, NVIDIA® G-SYNC® HDR with blazing-fast refresh rates up to 144Hz, built-in NVIDIA® SHIELD™, and pulse-pounding soundbar tuned for gaming, this cutting-edge display brings your entire living room to life. Game, stream entertainment, and lose yourself in a brilliant 163.8 cm (64.5") diagonal screen—when it comes to immersion, it doesn't get much bigger, or better, than this.



## A breathtaking visual experience

The OMEN X Emperium 65 provides the ultimate visual experience with VESA Certified DisplayHDR™ 1000 and 384 zones of full direct-array backlight. These game-changing technologies deliver lifelike fidelity and striking color, so games and movies are seen exactly as the developer or filmmaker intended. Plus, with best-in-class 4K<sup>1</sup> resolution on a whopping 163.8 cm (64.5") diagonal screen size, you'd better make room for big action.

## High-velocity visuals. Ultra-smooth gaming.

Powered by NVIDIA® G-SYNC® HDR technology, the OMEN X Emperium 65 gives you everything you want in a gaming experience—incredibly smooth, tear-free visuals with blazing-fast refresh rates up to 144Hz. Combined with ultra-low latency to minimize input lag, this display is fully equipped to take on today's most demanding titles.

## Your entertainment powerhouse

With built-in NVIDIA® SHIELD™ streaming technology, the OMEN X Emperium 65 pushes the limits of at-home entertainment. Access hundreds of apps like Netflix and Hulu in 4K HDR and enjoy gaming from the cloud or cast from your PC.

## Pulse-pounding audio. Perfected.

Take your sensory experience one step further with the OMEN X Emperium Soundbar. Complete with high-grade speakers and 3 stereo amps at 120 watts, it delivers incredible volume, immersion, and clarity for every in-game sound—from subtle footsteps to booming explosions. Two distinct audio modes deliver professionally tuned sound for gaming and entertainment.

<sup>1</sup> 4K content required to view 4K images.

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## Featuring

### **VESA Certified DisplayHDR™ 1000**

VESA Certified DisplayHDR™ with 1000 nits peak luminance provides vivid, colorful, and high contrast visuals as well as the highest level of certification for an HDR display available today.

### **Full Direct Array Local Dimming Backlight**

384 zones of full-array local dimming backlight allows different areas of the screen to show vastly different brightness levels at any time, providing you with the ultimate visual contrast for darker blacks and brighter whites.

### **Quantum Dot**

Trillions of tiny cadmium-free quantum dots deliver rich, vibrant color while using less energy than other display technologies.

### **DCI P3 95%<sup>4</sup>**

Experience an incredibly wide range of vibrant, realistic colors with the DCI-P3 color gamut—the same color space used in digital cinemas.

### **NVIDIA G-Sync™ HDR**

NVIDIA G-Sync™ HDR technology synchronizes the refresh rates of your display with your NVIDIA GPU to deliver gameplay that's sharp, fluid, and stutter-free—all in visually stunning HDR quality.

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<sup>2</sup> DisplayHDR™ is the high-performance Monitor and Display Compliance Test Specification from VESA specifying HDR (High Dynamic Range) quality. See <http://displayhdr.org> for more details.

<sup>3</sup> Cadmium is a heavy metal and is not environmentally friendly.

<sup>4</sup> All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

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Display size	64.5"
Aspect ratio	16:9 <sup>1</sup>
Display type	MVA with LED backlight
Pixel pitch	0.372 mm
Response time	14 ms gray to gray <sup>1</sup>
Brightness	750 cd/m <sup>2</sup> <sup>1,3</sup>
Contrast ratio	4000:1 static <sup>1</sup>
Viewing angle	178° horizontal; 178° vertical
Product color	Shadow black
Resolution	4K UHD (3840 x 2160 @ 144 Hz) <sup>4</sup>
Resolution note (native with speed)	eDP HBR2
Resolutions supported	1024 x 768; 1280 x 720; 1920 x 1080; 3840 x 2160; 640 x 480; 720 x 480; 720 x 576; 800 x 600
Display scan frequency (horizontal)	Up to 323 kHz
Display scan frequency (vertical)	Up to 144 Hz
Display features	Anti-glare; Language selection; LED backlights; On-screen controls; Plug and Play; User controls; NVIDIA G-SYNC™; IR sensor
Display Input Type	1 DisplayPort™ 1.4 (with HDCP support); 3 HDMI 2.0 (with HDCP support) <sup>5</sup>
Environmental specifications	Arsenic-free display glass; Low halogen; Mercury-free display backlights <sup>2</sup>
Energy efficiency	Energy efficiency class: B; On-mode power consumption: 176 W; Annual energy consumption: 257 kWh; Standby: 0.38 W; Power consumption (on-mode): 0.26 W; Power consumption (off-mode): 0.26 W
Display User Control Options	Audio control; Exit; Gaming; Information; Input control; Management; Menu; Picture; Power
External I/O ports	1 audio-out; 1 Ethernet (10/100/1000 MbE); 2 USB 3.0 (fast charging, power delivery up to 4.5 W); 1 SPDIF
Product dimensions	144.8 x 8.39 x 83.22 cm Head only. 144.8 x 34.04 x 93.42 cm With stand Packed: 170.4 x 38 x 105 cm
Weight	32.4 kg; Packed: 63.4 kg
Operating temperature range	5 to 35°C
Operating temperature range	41 to 95°F
Operating humidity range	20 to 80% non-condensing
Certifications and compliances	BSMI; CB; CE; CSA; EAC; FCC; ICES; ISO 9241-307; KC/KCC; Microsoft WHQL Certification (Windows 10, Windows 8.1 and Windows 7); NOM; PSB; TUV Bauart; UL; VCCI; WEEE; Low blue light
Power supply	Input voltage 100 to 240 VAC
Warranty	1 year parts and labour limited warranty.
What's in the box	AC power cord; DisplayPort™ cable; Documentation; HDMI cable; Remote controller; Sound bar kit
VESA mount	400 x 400 mm
Country of origin	Made in China
Product number	4WY70AA
Ordering info	4WY70AA#ABB: 193015306400; 4WY70AA#A2N:193015306455; 4WY70AA#ABU: 193015306417; 4WY70AA#ABY: 193015306431; 4WY70AA#UUG: 193015306448; 4WY70AA#UUZ: 193015306424

<sup>1</sup> All specifications represent the typical specifications provided by HP's component manufacturers, actual performance may vary either higher or lower.

<sup>2</sup> External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen.

<sup>3</sup> 750 cd/m<sup>2</sup> (HDR off).

<sup>4</sup> Can reach 144Hz and 323 kHz only when the display is connected with DisplayPort and with overclocking hardware.

<sup>5</sup> Input lag DisplayPort™ (UHD, 144 Hz DC=ON, Local dimming=ON): 9.1 ms; Input lag HDMI (UHD, 60 Hz, Local dimming=ON): 9.6 ms; Note: other configurations result in the different input lag, the worst case are less than 17 ms.

