

OMEN X Emperium 65 Display

Big Format Gaming Display with NVIDIA® G-SYNC® HDR



**Play. Bigger. Game.
Bigger than ever.**

Massive, mind-blowing, and incredibly immersive—the OMEN X Emperium 65 Display takes over your living room, and all your senses, with its stunning 4K HDR visuals, NVIDIA® G-SYNC® HDR with refresh rates up to 144Hz, built-in NVIDIA® SHIELD™, and pulse-pounding soundbar tuned for gaming.

Product overview

- **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 resolution on a whopping 65-inch diagonal screen size, you'd better make room for big action.⁽¹⁾⁽⁶⁾⁽⁸⁾
- **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.⁽⁹⁾⁽¹³⁾
- **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.⁽¹⁾
- **Pulse-pounding audio. Perfected.** Take your sensory experience one step further with the award-winning OMEN X Emperium Soundbar. With 3 stereo amps at 120 watts plus Low Frequency Array (LOFAR™) technology, it delivers incredible volume, immersion, and clarity for every in-game noise—from subtle footsteps to booming explosions—without the need for an external subwoofer. Two distinct audio modes deliver professionally-tuned sound for gaming and entertainment.⁽¹¹⁾⁽¹²⁾

Key specifications

- **Display size:** 64.5-inch (diagonal)
- **Aspect ratio:** 16:9
- **Response time:** 4 ms GtG with overdrive
- **Resolution:** 3840 x 2160 @ 144 Hz
- **Connectivity:**
 - 1 x DisplayPort 1.4
 - 3 x HDMI 2.0
 - 2 x USB 3.0 ports
 - 2 x USB charging ports
 - HDCP support (DP and HDMI)
- **Audio ports:**
 - Line out: 1
 - S-PDIF out: 1
 - HDMI ARC: 1
- **Exterior color:** Shadow black

Product features

- **Ultra High Definition 4K:** Experience cinematic quality with the incredible definition of 4K.⁽¹⁾
- **NVIDIA® G-SYNC® HDR:** This 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.⁽⁹⁾
- **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.⁽²⁾⁽¹³⁾
- **Quantum Dot:** Trillions of cadmium-free quantum dots deliver rich, vibrant color while being energy-efficient.⁽⁶⁾
- **DCI-P3 95%:** Experience an incredibly wide range of vibrant, realistic colors with the DCI-P3 color gamut—the same color space used in digital cinemas.⁽²⁾
- **Seamless visuals:** Smooth and quick 4 milliseconds gray-to-gray transitions with overdrive.
- **OMEN Command Center:** Customize picture mode and RGB lighting using OMEN Command Center software.
- **Proximity Lighting:** A sensor detects your hand and automatically lights up the port selection so you can easily locate the correct port.
- **OMEN X Gaming Soundbar:** Award-winning soundbar delivers a wide dynamic range of professionally-tuned, immersive sound for gaming and entertainment.⁽¹¹⁾
- **VESA Certified DisplayHDR™:** 1000 nits peak luminance is the highest level of certification for an HDR display available today.⁽⁶⁾
- **Full Direct Array Local Dimming Backlight:** 384 zones of full-array local dimming backlight provide the ultimate visual contrast for darker blacks and brighter whites.
- **Off the desk and on the wall:** The display is equipped with standard VESA mounting for showcasing on a wall. (400mm x 400mm)

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 3-year limited warranty. Certain restrictions and exclusions apply.⁽⁴⁾



Monitor specifications

Panel type	• AMVA (Advanced MVA)
Visible screen size	• 64.5-inch (diagonal)
Viewing angle	• Horizontal: 178° • Vertical: 178°
Surface treatment	• Anti-glare
Bezel	• Flat • Top: 0.118 in / 3.0 mm • Side: 0.118 in / 3.0 mm • Bottom: 0.469 in / 13.4 mm
Recommended resolution	• 3840 x 2160 @ 144 Hz (Display port, over clock on)
Panel bit depth	• 8-bit
Aspect ratio	• 16:9
Contrast ratio	• Static (Typical): 4000:1 ⁽⁵⁾ • Static (Minimum): 3200:1
Brightness	• Typical: 750 nits (HDR off) ⁽²⁾ • Peak: 1000 nits
Color gamut	• DCI-P3 95%
Low blue light mode	• Yes
Pixel pitch	• 0.372 x 0.372 mm • 67.78 PPI
Panel active area	• 1428.48 x 803.52 mm
Maximum refresh rate	• 144Hz ⁽³⁾
Variable sync support	• NVIDIA G-SYNC HDR
Response time	• 4 ms GtG (overdrive)
Connectivity	• 1 x DisplayPort™ 1.4 • 3 x HDMI 2.0 • HDCP support (DP and HDMI) • Audio ports: Line out : 1 S-PDIF out: 1 HDMI ARC: 1
USB	• Two USB 3.0 ports, and two USB power charging ports
Shield TV	• CPU: NVIDIA Tegra X1 • GPU: NVIDIA's Maxwell • WiFi: 2.4Ghz + 5Ghz Wi-Fi 802.11ac • LAN: Gigabit Ethernet
Power supply	• Internal
Energy saving/standby mode	• 0.5W
Base area footprint	• 57.01 in x 13.4 in • 1448.08 mm x 340.4 mm
Detachable base	• Yes
VESA mounting	• 400 x 400 mm pattern
Unpackaged dimensions	• Display: 57.01 in x 13.4 in x 36.8 in 144.808 cm x 34.04 cm x 93.422 cm • Soundbar: 57.68 in x 5.91 in x 3.86 in 1465 mm x 150 mm x 98 mm
Unpackaged weight	• Display: 79.6 lb / 36.1 kg • Soundbar: 19.4 lb / 8.8 kg
Packaged dimensions	• 67.09 in x 14.96 in x 41.34 in • 170.4 cm x 38 cm x 105 cm
Packaged weight	• 139.8 lb / 63.4 kg
Audio	• Volume control

On screen display	• Gaming • Picture • Input • Power • Audio • Menu • Management • Information • Exit • 5-way joystick + Power key • 4 user assignable function buttons
User programmable modes	• No
Languages	• 10 (English, Spanish, German, French, Italian, Netherlands, Portuguese, Japanese, T-Chinese and S-Chinese)
Certifications	• Microsoft WHQL Certification: Windows 7, 8, 8.1, 10 • WW application CE/ICES/VCCI/FCC/C-Tick/CB TUV-TUV-GS/ISO-9241-307/CTUVus/TUV LBL/CCC/CEL/BSMI/KCC/Australia MEPS/E-standby/PSB/ISC

Speaker specifications

Type	• Soundbar • Analog
Output power	• 120W
Impedance	• 4 Ohms
Frequency range	• 40 – 20k Hz
Sensitivity	• 91 dB @ 1K Hz at 1m full scale volume
Magnet	• Materials: Ferrite
Diaphragm	• Aluminum

Environmental features

LED backlights	• Mercury-free LED backlighting
Backlight lamp life	• 30K hours
Arsenic-free	• Arsenic-free display glass ⁽⁹⁾
Low halogen	• Low-voltage halogen design ⁽⁹⁾

Accessories & warranty

What's in the box	• AC power cord • HDMI cable • DP cable • NVIDIA® SHIELD™ remote controller included free for a limited time (while supply lasts) • Soundbar with mounting screws and allen wrench • Product notice • Warranty
Limited warranty	• Protected by a 3-year HP limited warranty. Certain restrictions and exclusions apply. ⁽⁴⁾ • Zero Bright Dot Warranty

Additional information

Product number	• 4JF30AA#ABA
Ad embargo date	• 02/24/2019
UPC Code	• 192545657181
Country of origin	• China
Tariff number	• 8528510000
Pallet information	• Dimensions: 67.09 in (L) x 44.89 in (W) x 87.4 in (H) 1704 mm (L) x 1140 mm (W) x 2220 mm (H) • Total weight: 905.0 lbs / 410.5 kg • Layers: 2 • Products per layer: 3 • Total products per pallet: 6

Learn more at hp.com

⁽¹⁾ 4K content required to view 4K images. ⁽²⁾ All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

⁽³⁾ Plastic parts incorporated into the chassis generally contain < 1000 ppm (0.1%) of bromine or chlorine. Printed circuit board and substrate laminates generally contain < 1500 ppm (0.15%) of total bromine and chlorine. Service parts after purchase may not be BFR/PVC-free. External accessories, including power supplies, power cords, and peripherals are not BFR/PVC-free. 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. Low-halogen except for adapter and cord. ⁽⁴⁾ Standard parts-and-labor hardware 3-year warranty. See www.hp.com/go/support for details.

⁽⁵⁾ Dynamic Contrast Ratios during video playback only, depending on series of frames or time duration. ⁽⁶⁾ 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. ⁽⁷⁾ Designation based on actions to reduce transportation-related emissions. ⁽⁸⁾ NVIDIA® G-SYNC® HDR requires a DisplayPort connection. ⁽⁹⁾ Cadmium is a heavy metal and is not environmentally friendly. ⁽¹⁰⁾ VESA mounting hardware not included and sold separately. Only wall mounting cap included. Options sold separately. ⁽¹¹⁾ CES® 2019 Innovation Awards Honoree in collaboration with Sound Research Corporation. ⁽¹²⁾ SoundEdge, LLC, 2018-2019. ⁽¹³⁾ Default refresh rate is 120Hz with NVIDIA G-Sync™ HDR on.

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