



# OMEN by HP 31.5 inch UHD 144Hz Smart Gaming Monitor - OMEN 32x (99Z68AA)



## Overview

### Smart Plays with OMEN

The OMEN 32x Smart Gaming Monitor redefines what it means to game, stream, and go live as you share content right from your screen and with enough options to connect everything you need – including Android™ phones. Embrace the future of gaming with the one smart monitor that meets all your needs.



### Visuals That Stun

Be stunned by incredible visuals and performance on this 4K UHD gaming monitor with Dolby Vision™.[2] Stay stutter-free with NVIDIA G-SYNC compatibility[5] and enjoy a smooth screen experience at 144 Hz for minimal lag.[4]



### Do More Than Game

Live stream directly from your screen to multiple platforms simultaneously with Multi-Platform Streamer Honors[14] or split your screen using Multi-View,[15] enabling you to cast your phone to your monitor while gaming to keep up with your favorite streamers or keep your chat open while you stay in the game.

### Everything you stream. All on one screen.

The entertainment you love. With a little help from Google. No more jumping from app to app. Google TV™[1] brings together movies and shows from all of your subscriptions. Need inspiration? Get curated recommendations, use Google's powerful search to find shows across 10,000+ apps, or browse hundreds of free channels. And with personalized profiles, everyone's experience is customized for them. [16]



### Materials that Matter

It matters. With at least 85% recycled plastic,[6] 15% recycled metal including 90% recycled aluminum in the stand,[7] and 20% recycled glass in the monitor panel [17], we are in this together.[8,9]

## Features

### Google TV

The entertainment you love. With a little help from Google. No more jumping from app to app. Google TV brings together your movies, shows, and more from across your subscriptions, so they're in one place.<sup>[1,16]</sup>

### Home panel on Google TV

Make Google TV the center of your smart home. Control lights, temperature, and more from the new home panel, get doorbell notifications and full-screen views of your cameras, and use your voice to control it all—just ask Google Assistant.  
[10]

### UHD Panel

Give all your entertainment a new level of immersion with impressive 4k resolution.<sup>[4]</sup>

### 144 Hz refresh rate

For crisp action and responsive gameplay, this fast refresh rate practically removes all artifacting and motion blurring.<sup>[4]</sup>

### IPS Technology

No matter where you stand, IPS panel technology delivers clear, vivid images. IPS technology ensures image accuracy and consistency across ultrawide 178-degree viewing angles, so you can get lost in your gameplay from any angle.<sup>[5]</sup>

### VESA DisplayHDR™ 400

Explore new worlds in stunning contrast with VESA DisplayHDR™ 400. With peak brightness of 400 nits and 1000:1 contrast ratio, experience games how the developers intended with brighter whites, deeper blacks, and richer colors.  
[3,4]

[1] Requires Internet connection. Subscriptions for services may be required. See Google for more details.

[2] Dolby, Dolby Vision, Dolby Atmos, and the double-D symbol are registered trademarks of Dolby Laboratories Licensing Corporation. Manufactured under license from Dolby Laboratories Licensing Corporation. Confidential unpublished works. Copyright © 2013-2024 Dolby Laboratories. All rights reserved.

[3] 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.

[4] All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary, either higher or lower.

[5] ©2024 NVIDIA, the NVIDIA logo, and NVIDIA G-SYNC are trademarks and/or registered trademarks of NVIDIA Corporation in the U.S. and other countries.

[6] Recycled plastic is expressed as a percentage of the total weight plastic. Post-consumer recycled is based on the definition set in the EPEAT® standard for computers, IEEE 1680.1-2018 standard.

[7] Recycled metal is expressed as a percentage of the total weight of the metal according to ISO 14021 definitions for metal parts over 25 grams.

[8] 100% outer box/corrugate cushion packaging made from sustainably sourced certified or recycled fibers. Fiber cushions made from 100% recycled wood fiber and organic material. Any plastic cushions are made from >90% recycled plastic. Excludes plastic bags and plastic foam sheeting.

[9] Recycling facilities not available in all locations.

[10] Devices sold separately.

[16] Google TV is the name of this device's software experience and a trademark of Google LLC. Google, Android, YouTube, YouTube Music and other marks are trademarks of Google LLC.

## Specifications

Color	Black
Display size (diagonal)	31.5"
Panel technology	IPS; LCD
Display size (diagonal)	80 cm (31.5")
Aspect ratio	16:9 <sup>[1]</sup>
Native resolution	4K UHD (3840 x 2160) <sup>[1,2]</sup>
Resolutions supported	640 x 480 @ 60 Hz; 800 x 600 @ 60 Hz; 1024 x 768 @ 60 Hz; 1280 x 720 @ 60 Hz; 1920 x 1080 @ 60 Hz; 2560 x 1440 @ 60 Hz; 2560 x 1440 @ 100 Hz; 2560 x 1440 @ 120 Hz; 3840 x 2160 @ 30 Hz; 3840 x 2160 @ 60 Hz; 3840 x 2160 @ 100 Hz; 3840 x 2160 @ 120 Hz; 3840 x 2160 @ 144 Hz
Pixel pitch	0.1818 x 0.1818 mm <sup>[1]</sup>
Brightness	400 nits <sup>[1]</sup>
Contrast ratio	1000:1 <sup>[1]</sup>
Response time (typical)	1ms GtG (with overdrive) <sup>[1]</sup>
Dimensions (W x D x H)	71.41 x 5.76 x 43 cm (without stand)
Dimensions (W x D x H)	28.11 x 2.27 x 16.93 in (without stand)
Dimensions With Stand (W x D x H)	71.41 x 24.33 x 62.08 cm
Weight	10.58 kg (with stand); 7.79 kg (without stand)
Weight	23.32 lb (with stand); 17.17 lb (without stand)
Display features	AMD FreeSync™ Premium; Integrated speakers; HP Eye Ease (Eyesafe® certified); NVIDIA® G-SYNC® Compatible; Height adjustable; Tilt; VESA ClearMR 6000 certified; Multi-View <sup>[1]</sup>
Onscreen controls	System; Channels and Inputs; Display and Sound; Network and Internet; Accounts and Profiles; Privacy; Apps; Accessibility; Remotes and Accessories; Help and Feedback
Display colors	Up to 1.07 billion colors supported <sup>[1,3]</sup>
Display scan frequency (horizontal)	30-334 kHz <sup>[1]</sup>
Display scan frequency (vertical)	24-144 Hz <sup>[1]</sup>
Power	100 - 240 VAC 50/60 Hz <sup>[1]</sup>
Power consumption	215.5 W (maximum), 50 W (typical), 0.5 W (standby)
Operating temperature range	5 to 35°C
Operating humidity range	20 to 80% RH (non-condensing)
Sustainable impact specifications	Low halogen; Molded paper pulp cushion inside box is 100% sustainably sourced and recyclable; Contains 20% recycled glass in the monitor panel; Contains at least 80% post-consumer recycled plastic; At least 15% recycled metal including 90% recycled aluminum in the stand; Outside box and corrugated cushions are 100% sustainably sourced or recyclable; Contains at least 5% ocean-bound plastic in the enclosure
Certifications and compliances	BIS; BSMI; CB; CCC; CE; cTUVus; EAC; FCC; ISO 9241-307; KC; KCC; NOM; PSB; TUV-S; VCCI; Vietnam MEPS; WEEE; ISC; WW application; ICE; NRCS; KMEPS
UPC number	(A2N) 197961164220; (ABA) 197961164237; (ABB) 197961164244; (ABT) 197961164251; (ABU) 197961164268; (ABV) 197961164275; (ABY) 197961164282; (ACQ) 197961164299; (UUG) 197961164305; (UUZ) 197961164312
Manufacturer Warranty	HP standard one-year limited warranty
What's in the box	Monitor; DisplayPort™ cable; HDMI cable; Documentation; Warranty card; AC power cable; Quick Setup Poster; 1 USB Type-C® to Type-C cable; Cable holder; 2 x AAA batteries; IR and Bluetooth® remote control <sup>[4]</sup>

## Additional specifications

<b>Audio</b>	Dolby Atmos®
<b>Audio port</b>	1 x 3.5 mm Audio Jack (Audio Out)
<b>Backlight lamp life minimum (to half brightness)</b>	30,000 hours
<b>Backlight type</b>	Local dimming
<b>Base area footprint (imperial)</b>	8.85 x 9.25 in
<b>Base area footprint (metric)</b>	22.49 x 23.49 cm
<b>Bezel</b>	3-sided borderless
<b>Color gamut</b>	99% sRGB; 95% Display P3 <sup>[1]</sup>
<b>Curvature</b>	Flat
<b>Datasheet photo 1</b>	<a href="https://prismpui-int.inc.hpicorp.net/PRO.Crystal.1/DAMHandler\Accessories/Apex_32_Omen_2JetBlack_Catalog_GTVMario_Front_v2.png">https://prismpui-int.inc.hpicorp.net/PRO.Crystal.1/DAMHandler\Accessories/Apex_32_Omen_2JetBlack_Catalog_GTVMario_Front_v2.png</a>
<b>Datasheet photo 2</b>	<a href="https://prismpui-int.inc.hpicorp.net/PRO.Crystal.1/DAMHandler\Accessories/Apex_32_Omen_JetBlack_Catalog_GTVMario_FrontRight_v2.png">https://prismpui-int.inc.hpicorp.net/PRO.Crystal.1/DAMHandler\Accessories/Apex_32_Omen_JetBlack_Catalog_GTVMario_FrontRight_v2.png</a>
<b>Datasheet photo 3</b>	<a href="https://prismpui-int.inc.hpicorp.net/PRO.Crystal.1/DAMHandler\Accessories/25C1_NPI_OMEN32x_JetBlack_Catalog_1920x1080p_GoogleTV_RightProfile_2862190-removebg-preview.png">https://prismpui-int.inc.hpicorp.net/PRO.Crystal.1/DAMHandler\Accessories/25C1_NPI_OMEN32x_JetBlack_Catalog_1920x1080p_GoogleTV_RightProfile_2862190-removebg-preview.png</a>
<b>Datasheet photo 4</b>	<a href="https://prismpui-int.inc.hpicorp.net/PRO.Crystal.1/DAMHandler\Accessories/Apex_32_Omen.png">https://prismpui-int.inc.hpicorp.net/PRO.Crystal.1/DAMHandler\Accessories/Apex_32_Omen.png</a>
<b>Detachable stand</b>	Yes
<b>Display area (imperial)</b>	27.48 x 15.45 in
<b>Display area (metric)</b>	69.81 x 39.26 cm
<b>Display contrast ratio (dynamic)</b>	10,000,000:1
<b>DisplayPort™</b>	1 DisplayPort™ 1.4
<b>Ecolabels</b>	Ukraine EE; Korea MEPS; California CEC
<b>Ethernet</b>	1 RJ-45 (100 Mbps, for Android TV™ OS use only)
<b>Flicker-free</b>	Yes (TÜV certified)
<b>HDCP</b>	Yes, DisplayPort™, HDMI and USB Type-C®
<b>HDMI</b>	2 HDMI 2.1
<b>HDR</b>	VESA DisplayHDR™ 400
<b>Hardness</b>	3H <sup>[1]</sup>
<b>Haze</b>	25%
<b>Height adjustment range</b>	100 mm
<b>Horizontal viewing angle</b>	178°
<b>Low blue light</b>	Yes, HP Eye Ease (Eyesafe® Certified) <sup>[1]</sup>
<b>Non-Operating Humidity Range</b>	5 - 95 %
<b>Non-operating temperature - Celsius</b>	-40 to 65°C

Non-operating temperature - fahrenheit	-40 to 149°F
Operating altitude	Up to 16,400 ft
Operating altitude	Up to 5,000 m
Operating temperature range	41 to 95°F
Package dimensions (W x D x H)	82.1 x 18.5 x 52.5 cm
Package dimensions (W x D x H)	32.32 x 7.28 x 20.67 in
Package weight	34.61 lb
Package weight	15.7 kg
Pallet (layers)	4
Panel bit depth	10 bit (8 bit + FRC) <sup>[1]</sup>
Picture-in-Picture, Picture-by-Picture	Yes, Multi-View
Pixels per inch (ppi)	140 ppi <sup>[1]</sup>
Power supply type	Internal
Product brand name	HP
Product color	Black
Product dimensions with stand (W x D x H)	28.11 x 9.58 x 24.44 in
Products per pallet	24
Products per pallet layer	6
Refresh rate (maximum)	144 Hz
Remote manageability	In-Band Wake on LAN (WoL) <sup>[12]</sup>
Resolution (maximum)	4K UHD (3840 x 2160 @ 144 Hz) <sup>[1]</sup>
Screen treatment	Anti-glare
Speaker output power	4 x 3 W
Stand color	Black
Stand type	With stand
Storage altitude	Up to 12,192 m
Storage altitude	Up to 40,000 ft
Technology logo 1	<a href="https://prismpui-int.inc.hpicorp.net/PRO.Crystal.1/DAMHandler/Accessories/Nvidia__G-SYNC-removebg-preview.png">https://prismpui-int.inc.hpicorp.net/PRO.Crystal.1/DAMHandler/Accessories/Nvidia__G-SYNC-removebg-preview.png</a>
Technology logo 10	<a href="https://prismpui-int.inc.hpicorp.net/PRO.Crystal.1/DAMHandler/Accessories/Dolby Vision x Atmos Logo Black 1.png">https://prismpui-int.inc.hpicorp.net/PRO.Crystal.1/DAMHandler/Accessories/Dolby Vision x Atmos Logo Black 1.png</a>
Technology logo 2	<a href="https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08610275.png">https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08610275.png</a>

Technology logo 3	<a href="https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08056676.jpg">https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08056676.jpg</a>
Technology logo 4	<a href="https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08829160.png">https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08829160.png</a>
Technology logo 5	<a href="https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08610272.png">https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08610272.png</a>
Tilt	-5 to +20°
UNSPSC code	43211902
USB Type-A	2 USB 2.0 Type-A (Battery Charging 1.2)
USB Type-C® video input	1 USB Type-C® (65W USB Power Delivery, Alt mode DisplayPort™ 1.4)
VESA mounting	100 x 100 mm (bracket included)
Vertical viewing angle	178°
Viewable diagonal size	31.5" (80 cm)

[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 2.1 required to drive panel at its native resolution. The video card of the connected PC must be capable of supporting 3840 x 2160 at 60 Hz with 10-bit color using one DisplayPort™, HDMI or USB Type-C®.

[3] Number of colors through A-FRC technology.

[4] Included cables may vary by country.

[12] In Android TV OS mode only.

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