

### Technical Specifications

#### OMEN 27 inch QHD 165Hz Gaming Monitor-OMEN 27qz



### Front

1. Power LED

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1. Power button
2. Joypad OSD button
3. Power Cable
4. HDMI 2.0 Port (1)
5. HDMI 2.0 Port (2)

#### Back

6. DisplayPort™ 1.4
7. Headphone jack

### Technical Specifications


**Model:** AK2B3AA, AK2B3E9, AK2B3AT

<b>Panel Specifications</b>	<b>Display Size (Diagonal)</b>	27" (68.6 cm)
	<b>Viewable Diagonal Size</b>	26.96" (68.47 cm)
	<b>Panel Technology</b>	IPS
	<b>Curvature</b>	Flat
	<b>Max Refresh Rate</b>	165 Hz
	<b>Native Resolution</b>	QHD (2560 x 1440)
	<b>Panel Bit Depth</b>	True 8 bit
	<b>Aspect Ratio</b>	16:9
	<b>Brightness (Typical)</b>	400 nits
	<b>HDR</b>	HP HDR
	<b>Display Contrast Ratio (Static)</b>	1000:1
	<b>Display Contrast Ratio (Dynamic)</b>	9.8M:1
	<b>Flicker Free</b>	Yes (TÜV certified)
	<b>Pixel Pitch</b>	0.23 x 0.23 mm
	<b>Pixels Per Inch (PPI)</b>	109 PPI
	<b>Display Colors</b>	Up to 16.7 million colors supported
	<b>Backlight Lamp Life Minimum (To Half Brightness - In Hours)</b>	30,000 hours
	<b>Backlight Type</b>	Edge-lit
	<b>Screen Treatment</b>	Anti-glare
	<b>Hardness</b>	3H
	<b>Haze</b>	25%
	<b>Response Time (Typical)</b>	1ms GtG (with overdrive)
	<b>Horizontal Viewing Angle (Typical Cr&gt;10)</b>	178°
<b>Vertical Viewing Angle (Typical Cr&gt;10)</b>	178°	
<b>Panel Active Area Metric (W X H)</b>	59.67 x 33.57 cm	
<b>Panel Active Area Imperial (W X H)</b>	23.49 x 13.22 in	
<b>NOTE:</b> Performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.		
<b>Variable Refresh Rate Technology</b>	FreeSync	
<b>Color</b>	<b>sRGB</b>	99%
	<b>Display P3</b>	95%
<b>Color Management</b>	<b>Color Space</b>	RGB 4:4:4, YCBCR 4:4:4, YCBCR 4:2:2
	<b>RGB Channel Adjust</b>	Yes, Gain
	<b>Default Color Temperature</b>	Standard (6500K)
<b>Monitor Specifications</b>	<b>Bezel Type</b>	3-sided borderless
	<b>Color Of Stand</b>	Black
	<b>Color Of Head</b>	Black
	<b>Tilt</b>	-5 to +20°
	<b>Pivot</b>	±90
	<b>Height Adjustment Range</b>	100 mm
	<b>Vesa Mounting</b>	100 mm x 100 mm (bracket included)
<b>Detachable Stand</b>	Yes	

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<b>Warranty</b>	3/3/0 for EMEA/ AMS SKU
<b>Low Blue Light</b>	Yes, HP Eye Ease (TÜV Low Blue Light Hardware Solution certified)
<b>Management Software</b>	OMEN Gaming Hub/HP Display Center* *Host PC requires Windows 10. OMEN Gaming Hub is available on the Microsoft store.
<b>On Screen Display (OSD)</b>	Gaming, Image, Color, Input, Power, Menu, Management, Information, Exit
<b>On Screen Display</b>	
<b>Native Resolution</b>	QHD (2560 x 1440) * HDMI 2.0 & DisplayPort™ 1.4 required to drive panel at its native resolution. The video card of the connected PC must be capable of supporting 2560x1440 at 60 Hz with true 8-bit color using one HDMI or DisplayPort™.
<b>Maximum Resolution</b>	QHD (2560 x 1440 @ 165 Hz)
<b>Preset Graphic Modes/Supported Resolutions</b>	640 x 480 @ 60Hz 640 x 480 @ 75Hz 720 x 400 @ 70 Hz 800 x 600 @ 60 Hz 800 x 600 @ 75 Hz 1024 x 768 @ 60 Hz 1024 x 768 @75 Hz 1280 x 720 @ 60 Hz 1280 x 800 @ 60 Hz 1280 x 1024 @ 60 Hz 1280 x 1024 @ 75 Hz 1440 x 900 @ 60 Hz 1600 x 900 @ 60 Hz 1680 x 1050 @ 60 Hz 1920 x 1200 @ 60Hz 1920 x 1080 @ 60 Hz 2560 x 1440 @ 60Hz 2560 x 1440 @ 75 Hz 2560 x 1440 @ 120Hz 2560 x 1440 @ 144 Hz 2560 x 1440 @ 165 Hz (DisplayPort™ only)
<b>Minimum Vertical Scan Rate</b>	55 Hz (HDMI) 60 Hz (DisplayPort™)
<b>Maximum Vertical Scan Rate</b>	144 Hz (HDMI) 165 Hz (DisplayPort™)
<b>Minimum Horizontal Scan Rate</b>	30 kHz
<b>Maximum Horizontal Scan Rate</b>	250kHz (HDMI) 255kHz (DisplayPort™)
<b>Maximum Pixel Clock</b>	600MHz (HDMI) 720MHz (DisplayPort™)
<b>User-Assignable Function Buttons</b>	Yes, 4 (8 options)
<b>Audio</b>	Audio Out
<b>Languages</b>	11 (English, Spanish, German, French, Italian, Netherlands, Portuguese, Japanese, T-Chinese, S-Chinese and Russian)

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<b>Connector Types</b>	<b>DisplayPort™</b> <b>HDMI</b> <b>HDCP</b> <b>Audio Port</b>	1 DisplayPort™ 1.4 2 HDMI 2.0 Yes, DisplayPort™ and HDMI 1 x 3.5 mm Audio Jack (Audio Out)
<b>Special Features</b>	<b>Switch</b> <b>User Presets</b>	Up/ Down/Left/ Right button, Menu button, Power button 23
<b>Power &amp; Operating Specs</b>	<b>Power Supply</b>  <b>Power Source</b> <b>Power Consumption- Max</b> <b>Energy Saving/Stand By Mode</b> <b>Power Consumption - Typical</b>	Internal  100 – 240 VAC 50/60 Hz 67 W 0.5 W 40 W
<b>EU Energy Efficiency Class (ErP LOT-5)</b>	<b>On-mode Power Consumption for Standard Dynamic Range (SDR)</b>	26 W
<b>EU Energy Efficiency Class (ErP LOT-5)</b>	<b>ErP LOT5 Energy Efficiency Class for Standard Dynamic Range (SDR)</b>	
	<b>On-mode Power Consumption for High Dynamic Range (HDR)</b>	63
	<b>ErP LOT5 Energy Efficiency Class for High Dynamic Range (HDR)</b>	G
<b>Operating Conditions</b>	<b>Operating Temperature - Celsius</b> <b>Operating Temperature - Fahrenheit</b> <b>Non-Operating Temperature - Celsius</b> <b>Non-Operating Temperature - Fahrenheit</b> <b>Operating Humidity</b> <b>Non-Operating Humidity</b> <b>Operating Altitude Metric</b> <b>Non-operating Altitude Metric</b> <b>Operating Altitude Imperial</b> <b>Non-operating Altitude Imperial</b>	5~35°C 41– 95°F –40 – 65°C –40 – 149°F 20 – 80% Relative Humidity (non-condensing) 5~95%RH 0~5,000m (16,400 ft.) 0~12,192m (40,000 ft.) 0~16,400ft 0~40,000ft
<b>Certifications and Compliances</b>	<b>Low Halogen</b>  <b>Agency Approvals and Certifications</b>  <b>Microsoft WHQL Certification</b> <b>EPEAT® Registered</b> <b>Regions need to verify by country</b> <b>SmartWay Transport Partnership - NA only</b>	Yes  EMEA/NA application CB/ISO9241-307/TUV-LBL/TUV-Flicker Free/EyeSafe 2.0/TUV-Bauart/UL/cTUVus/NOM/Canada ICES/CE/FCC/Ukraine Certificate/UAE Safety/UAE RoHs/Ukraine safety/South Africa Safety/EAC Windows 11, Windows 10  No  Yes (NA sku)

### Technical Specifications

#### Contains Recycled Plastics

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At least 85% ITE-derived closed loop plastic\*

#### Recyclable Packaging (Box, packing materials)

\* ITE Derived Closed Loop Plastic percentage is based on the definition set in the IEEE 1680.1-2018 standard.  
 Outside Box and corrugated cushions are 100% sustainably sourced and recyclable\*, Molded Paper Pulp Cushion inside box is 100% sustainably sourced and recyclable\*\*  
 \* 100% outer box packaging and corrugated cushions made from sustainably sourced certified and recycled fibers.  
 \*\* Molded pulp cushions are made from 100% recycled wood fiber and organic materials.

#### Unit Product/Package Specifications

**Product Dimensions**  
 (Unpacked with stand) (W x D x H)  
**Product Dimensions**  
 (Packed) (W x D x H)  
**Display Head Dimensions**  
 (Unpacked without stand) (W x D x H)  
**Base Area Footprint**  
 (w x d mm)  
**Bezel Measurements**  
  
**Product Weight**  
 (Unpacked with stand)  
**Product Weight**  
 (Packed)  
**Product Weight**  
 (Head Only)

	<b>Metric</b>	<b>Imperial</b>
	61.36 x 22.33 x 52.37 cm	24.16 x 8.79 x 20.62 in
	69.9 x 16.0 x 44.6 cm	27.52 x 6.30 x 17.56 in
	61.36 x 5.22 x 36.43 cm	24.16 x 2.06 x 14.34 in
	214.9 x 209.9 mm	8.46 x 8.26 in
	Top: 2.00 mm Sides: 2.00 mm Bottom: 18.8 mm	Top: 0.08 in Sides: 0.08 in Bottom: 0.74 in
	7.41 kg	16.34 lb
	10.41 kg	22.94 lb
	5.37 kg	11.84 lb

#### Pallet Information

**Pallet Dimensions**  
 (L x W x H mm)  
  
**Pallet Total Weight**  
  
**Pallet Layers**

Slip Sheet: 1130x709x2255 mm (20 ft &40 ft)	Slip Sheet: 44.49x27.91x88.78 inch (20 ft &40 ft)
Slip Sheet: 1130x709x2255 mm (40 ft HQ)	Slip Sheet: 44.49x27.91x88.78 inch (40 ft HQ)
Pallet: 1130x709 x 1926 mm (20 ft & 40 ft)	Pallet: 44.49x27.91 x 75.83 inch (20 ft & 40 ft)
Pallet: 1130 x 709 x 2375 mm (40 ft HQ)	Pallet: 44.49 x 27.91 x 93.5 inch (40 ft HQ)
Slip Sheet: 364.35 kg (20 ft & 40 ft)	Slip Sheet: 803.26 lb (20 ft & 40 ft)
Slip Sheet: 364.35kg (40 ft HQ)	Slip Sheet: 803.26lb (40 ft HQ)
Pallet: 301.48kg (20 ft & 40 ft)	Pallet: 664.65lb (20 ft & 40 ft)
Pallet: 374.35 kg (40 ft HQ)	Pallet: 825.3lb (40 ft HQ)
5 layers per slipsheet	
4 layers per pallet (20' ft /40' ft)	

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<b>Pallet Product per Layer</b>	5 layers per pallet (40' HQ) 7 (slip sheet & pallet) 35 sets per slipsheet
<b>Total Products per Pallet</b>	28 sets per pallet (20' ft /40' ft) 35 sets per pallet (40' HQ)
<b>Container Load, 20-Foot</b>	560/448 (slip sheet and pallet)
<b>Container Load, 40-Foot</b>	1120/896 (slip sheet and pallet)
<b>Container Load, 40-Foot HighQ</b>	1120(slip sheet and pallet)
<b>What's in the box?</b>	AC power cord (1.83m) 5.9ft, DisplayPort™ 1.4 cable (1.8m), Quick Setup Poster, Warranty
<b>User Guide and Warranty Languages</b>	<p><b>User Guide Languages</b></p> <p>Arabic, Bahasa Indonesia, Bulgarian, Chinese-S, Chinese-T, Czech, Danish, Dutch, English, Estonian, Finnish, French, German, Greek, Hebrew Arabic, Hungarian, Italian, Japanese, Kazakh, Korean, Latvian, Lithuanian, Norwegian, Polish, Portuguese (Brazilian), Portuguese (Iberian), Romanian, Russian, Serbian, Slovak, Slovenian, Spanish, Swedish, Thai, Turkey, Ukrainian</p> <p><b>Warranty Languages</b></p> <p>English, US (EN), English, AP (EN-AP), English, LA (EN-LA), English, UK (EN-GB), Arabic (AR) -17x, Bahasa Indonesia (ID), Bosnian (BS), Bulgarian (BG), Chinese-S (CN), Chinese-T (TW), Croatian (HR), Czech (CS), Danish (DA), Dutch (NL), Estonian (ET), Finnish (FI), French, Canadian (FC), French, European (FR), German (DE), Greek (EL), Hebrew (HE), Hungarian (HU), Italian (IT), Japanese (JA), Kazakh (KK), Korean (KO), Latvian (LV), Lithuanian (LT), Norwegian (NO), Polish (PL), Portuguese, Brazilian (BR), Portuguese, Iberian (PT), Romanian (RO), Russian (RU), Serbian (SR), Slovak (SK), Slovenian (SL), Spanish, Castilian (ES-ES), Spanish, Latin, America (ES-MX), Swedish (SV), Thai (TH), Turkish (TR), Ukrainian (UK), Vietnamese (VI)</p>

### *Technical Specifications*

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### Summary

#### Change Log

Change Log			
	V1 to V2		
	V2 to V3		
	V3 to V4		