Datasheet

OMEN 25i Gaming FHD Monitor

Your game just got real. Like real real.

React faster, aim better, and zero in every aspect of your game. We've redefined high definition gaming with 165Hz, 1ms response, AMD FreeSync™ Premium Pro[1], and more colors than ever before.

*Product image may differ from actual product

Tailor Your Target
Zero in all your settings in OMEN Gaming Hub. Customize your environment-dynamic crosshairs[2], upscale older games to 1080p resolution flip into remaster mode, see in the dark with shadow vision, and catch all the details with edge precision.

No Frame Left Behind
Live in the flow of 165Hz with 1ms response time and experience silky smooth gameplay with AMD FreeSync™ Premium Pro[1] and G-SYNC compatible[3].

All of the Colors
Look out. This breathtaking view will blow you away with its killer front of screen performance which includes 1080p IPS, VESA DisplayHDR 400, and 90% DCI-P3 color gamut.

Comfort for the Eyes
HP Eye Ease with Eyesafe® certification filters blue light without affecting the color accuracy in. Customize your comfort with the adjustable base.

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Featuring

Step up to the best
IPS technology brings you clear views from almost any angle. Every seat is the best seat in the house.

165Hz refresh rate
Crisp action and incredibly responsive gameplay with virtually no artifacting or screen tearing.[4]

1-millisecond response time with Overdrive
Eliminates motion blur for crisp, fluid gameplay no matter what's happening on-screen.[4]

Moving Picture Response Time
Greatly reduces motion blur for a more fluid visual experience.

VESA Certified DisplayHDR 400
Brighten your screen with enhanced contrast for a lifelike visual experience.[5]

DCI-P3 color space
Get deeper hues and more accurate colors with a wider color gamut than sRGB.[4]

AMD FreeSync™ Premium Pro Technology
AMD FreeSync™ Premium Pro technology means low latency, wide adaptive refresh rate ranges, low framerate compensation and brilliant pixel quality in gaming.[6]

8-bit color
Experience true to life color with an 8-bit color display that shows 16.77 million colors.

OMEN Gaming Hub
OMEN Gaming Hub is your one place for everything to make your gaming experience better. From software enhancements to hardware control, and live services, OGH elevates play in easy and simple way.

Dynamic Crosshair
Automatically changes the crosshair color based on environment, so it doesn't disappear in the background.

Game Remaster Mode
Automatically upscales resolution of old school games and applies color filters to make them look brand new.

Shadow Vision
Brightens scenes without overexposing, so you can see better in dark environments.

Edge Precision
Smooths and corrects sharp images for a more accurate and realistic appearance.

Console compatibility
Easily connects with your favorite current and next gen gaming consoles – just plug and play.

Eyesafe® Certified Display
Eyesafe® certified displays meet TÜV low blue light requirements and Eyesafe® standards for protecting your eyes from harmful blue light without distorting colors to reduce eyestrain when working for long periods of time.

Adjust your view
Easy tilt adjustment 5 degrees forward and 20 degrees backward.

Sustainably Sourced Packaging
HP is innovating new ways to reduce the amount of materials in our packaging and to use more recycled materials in the design.[7,8]

FHD display / 1080p display
Brilliant visuals and unforgettable quality from a stunning FHD display.[9]

Joystick
Navigating through the on-screen menu is easier than ever before with a built-in joystick.

Off the desk and on the wall
VESA mounts for easy mounting on a wall or arm.[10]

Three-sided micro-edge display
See more of your screen with a three-sided micro-edge display that maximizes your viewing area.

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Product number	22J05AA#ABB:; #A2N; #ABT; #ABU; #ABV; #ABY; #ACQ; #UUG; #UUZ
UPC number	195122781699
Display size	62.23 cm (24.5")
Aspect ratio	16:9
Display type	IPS [1]
Pixel pitch	0.2832 mm x 0.2802 mm
Response time	1ms MPRT [1]
Brightness	400 nits [1]
Contrast ratio	1000:1
Display contrast ratio (dynamic)	12000000:1
Product color	Black
Display Color Gamut	99% sRGB; 90% DCI-P3
Resolution (maximum)	FHD (1920 x 1080 @ 165 Hz)
Resolutions supported	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; 720 x 480
Display scan frequency (horizontal)	31-192 KHz
Display scan frequency (vertical)	60-165 Hz
Display features	On-screen controls; VESA DisplayHDR 400 certified; Gaming Console Compatible; AMD Freesync™ Premium Pro; G-Sync compatible
Display Input Type	1 USB Type-B; 1 HDMI 2.0 (with HDCP support); 1 DisplayPort™ 1.4-in (with HDCP support); 2 USB-A 3.2 Gen 1
Physical security features	Security lock-ready [2]
Energy efficiency	Energy efficiency class: F; On-mode power consumption: 53 W (maximum); Annual energy consumption: 22 kWh; Standby: 0.5 W; Power consumption (on-mode): 53 W (maximum); Power consumption (off-mode): 25 W (typical)
Display User Control Options	Exit; Information; Management; Power control; Input control; Menu control; Gaming; Image; Color
Operating temperature range	5 to 35°C
Operating temperature range	41 to 95°F
Operating humidity range	20 to 80% non-condensing
Ecolabels	CEL Grade 1;
Power supply	100 - 240 VAC 50/60 Hz
VESA mount	100 mm x 100 mm
Touch-enabled	Not touch-enabled
Pixels per inch (ppi)	90 ppi
Panel bit depth	8 bit
Vertical viewing angle	178°
Horizontal viewing angle	178°
Bezel	3-sided micro-edge
Tilt	-5 to +20°
Pivot	No pivot
Height adjustment range	No height adjust
Hardness	3H
Screen treatment	Anti-glare
Integrated privacy filter	No
Flicker-free	Yes
Low blue light	Yes, Eyesafe® Certified
Port and Connectors	1 HDMI 2.0; 1 DisplayPort™ 1.4; 2 SuperSpeed USB Type-A 5Gbps signaling rate; 1 x 3.5 mm Audio Jack (Audio Out); 1 USB-B; No
HDCP	Yes, DisplayPort™ and HDMI
Management software	OMEN Gaming Hub
Warranty	1 year limited warranty
Certifications and compliances	Australian-New Zealand MEPS; BIS; BSMI; CB; CCC; CE; CEL; cTUVus; EAC; E-standby; EUP Lot-5; EUP Lot-6; FCC; ICES; ISO 9241-307; KCC; NOM; RCM; VCCI; Vietnam MEPS; WEEE; ISC; Low blue light; EUP Lot-26; Ukraine Energy label; California Energy Commission (CEC); South Africa Energy; Mexico Energy; WW application; UAE; Ukraine certificates; NRCS of South Africa; Eyesafe® Certified; UKCA; TÜV Flicker free certified
What's in the box	Monitor; DisplayPort™ cable; USB cable; Power adapter; AC power cord
Dimensions (L x W x H)	55.75 x 9.23 x 33.3 cm
Weight	5.3 kg (With stand.)
Package Dimensions (L x W x H)	63.2 x 14.2 x 41.1 cm
Package weight	7.8 kg

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Messaging Footnotes

[1] FreeSync™ Premium Pro is only available when it is connected on Display Port or HDMI with HDR capabilities and game support. FreeSync is an AMD® technology enabled on FHD, QHD and HDR displays and is designed to eliminate stuttering and/or tearing in games and videos by locking a display's refresh rate to the frame rate of the graphics card. HDR does not require HDR monitors; driver can be set in native mode when FreeSync Premium Pro supported content is detected. Otherwise, HDR content requires that the system be configured with a fully HDR-ready content chain. Mandatory low framerate compensation and at least 120Hz refresh rate, AMD Radeon Graphics and/or AMD A-Series APU-compliant monitors with DisplayPort/HDMI Adaptive-Sync required. AMD 15.11 Crimson driver (or newer) required to support FreeSync over HDMI. Adaptive refresh rates vary by monitor. More information is available at www.amd.com/freesync.
[2] Based on HP's internal analysis of a gaming cross hair that can be built using 5 customer customizable shapes for up to 25 shape combinations using 8 different colors as of Jan 5, 2021.
[3] Supports Adaptive-sync with NVIDIA® GeForce® graphics cards and AMD Radeon graphics cards. FreeSync™ certified. Compatible with NVIDIA® GeForce® GTX 10 series, GTX 16 series and newer graphics cards.
[4] All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary, either higher or lower.
[5] 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.
[6] FreeSync Premium Pro does not require HDR capable monitors; driver can set monitor in native mode when FreeSync Premium Pro supported HDR content is detected. Otherwise, HDR content requires that the system be configured with a fully HDR-ready content chain, including: graphics card, graphics driver and application. Video content must be graded in HDR and viewed with an HOR-ready player. Windowed mode content requires operating system support. GD-162.
[7] 100% outer box packaging and corrugated cushions made from sustainably sourced certified and recycled fibers.
[8] Fiber cushions made from 100% recycled wood fiber and organic material.
[9] Full high-definition (FHD) content is required to view FHD images.
[10] VESA mounting arm or wall mounting assembly sold separately.

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] Lock sold separately.

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