Datasheet

HP Series 3 Pro 23.8 inch FHD Monitor - 324pe

Optimize Your Everyday Tasks

Make the most out of your workday on this 23.8-inch FHD, thoughtfully energy saving engineered monitor. Boost productivity with just the right visual features while also experiencing great comfort with a screen that you can adjust to your ideal position.



*Product image may differ from actual product

100Hz

Enhanced Visuals

This 23.8-inch FHD monitor is equipped with what you need to complete your everyday tasks. It boasts a quality IPS screen that's visible from any angle and up to 100 Hz refresh rate[1,2] for sharp images and fluid motion.

Ideal Comfort

Elevate your comfort with 4-way adjustability and Ergonomic Setup Guide[3] via HP Display Center.[4] Plus, enjoy eye comfort with HP Eye Ease, an always-on hardware low-blue light filter that doesn't impact color accuracy.

Designed to Help You Focus

Streamline your desk with a monitor that helps you stay focused. Cut the clutter with neat cable management, and a 3-sided borderless design to cleanly pair dual monitors. Plus, two 2W speakers built in for a better audio experience.

Sustainability in action

Designed with purpose

Designed with at least 85% recycled plastic content in the monitor enclosure,[5] 20% recycled glass in the monitor panel[6] and ships in certified or recycled sources of paper packaging.[7]

ENERGY STAR

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Featuring

FHD Resolution
Focus on the finer details and enjoy sharp visuals and crystal clear images with the 1920 x 1080 FHD resolution on this 23.8" diagonal monitor.[1,8]

IPS Technology
No matter where you are or sit, IPS technology ensures image accuracy and consistency across wide 178-degrees horizontal and vertical viewing angles.[1]

Ergonomic Setup Guide
With world-class ergonomic practices at your fingertips, you have the knowledge to fine-tune your display's 4-way adjustability to achieve optimal comfort, all day, thanks to the step-by-step Ergonomic Setup Guide in HP Display Center.[3,4]

100 Hz Refresh Rate
With a 100 Hz refresh rate this monitor is capable of clear details, smoothly moving from frame to frame, allowing for fast split-second reaction time.[1]

Built-In Dual 2W Speakers
Customize your monitor with easy to use, intuitive HP Display Center software that lets you tailor your settings, partition screens, and even dim the screen—all through the host PC.

Good Contrast
See the nuanced differences of color, shadow, and highlights thanks to the 1000:1 contrast ratio.[1]

Always-on, True Color, Low-Blue Light Filter
HP Eye Ease is an always-on, low-blue light filter that helps keep your eyes comfortable throughout the day by reducing blue light without impacting color accuracy or adding a yellow color shift.

Essential Ports
This monitor is ready to connect for sharp FHD visuals with a VGA, HDMI 1.4, and DisplayPort™ 1.2.[9]

Sleek Design, Clean Space.
See and do more on your screen with a 3-sided borderless with micro-edge bezel design that maximizes your viewing area for a sleek design and virtually seamless dual-monitor setups.

Easily Personalize and Adjust Your Monitor
Customize your monitor with easy to use, intuitive HP Display Center software that lets you tailor your settings, partition screens, and even dim the screen—all through the host PC.[4]

Remote Management Reimagined
HP Client Management Script Library (CMSL) makes remote manageability easy to use. This powerful solution works seamlessly with Intune/SCCM to manage your display fleet using PowerShell.[10]

Increased Energy Efficiency
HP is committed to helping protect our shared future by minimizing the energy our monitors consume to help reduce energy demand. This monitor is held to the highest energy saving standard with an ENERGY STAR® rating and EPEAT® Gold Registration.[11]

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Specifications

Display specifications

Display size	60.5 cm (23.8")
Viewable diagonal size	23.8" (60.47 cm)
Aspect ratio	16:9[1]
Curvature	Flat
Native resolution	FHD (1920 x 1080)[1,2]
Resolution (maximum)	FHD (1920 x 1080 @ 100 Hz)[1]
Resolutions supported	640 x 480 @ 60 Hz; 640 x 480 @ 75 Hz; 720 x 400 @ 70 Hz; 800 x 600 @ 60 Hz; 800 x 600 @ 75 Hz; 1024 x 768 @ 60 Hz; 1280 x 720 @ 60 Hz; 1280 x 1024 @ 60 Hz; 1440 x 900 @ 60 Hz; 1600 x 900 @ 60 Hz; 1680 x 1050 @ 60 Hz; 1920 x 1080 @ 50 Hz; 1920 x 1080 @ 60 Hz; 1920 x 1080 @ 100 Hz; 1280 x 1024 @ 75 Hz; 720 x 480 @ 60 Hz; 720 x 576 @ 50 Hz; 1024 x 768 @ 75 Hz; 1280 x 720 @ 50 Hz; 1280 x 720 @ 100 Hz; 1280 x 800 @ 60 Hz; 1920 x 1080 @ 75 Hz
Panel type	IPS; LCD
Bezel	3-sided borderless
Panel active area	52.7 x 29.65 cm
Panel bit depth	6 bit + FRC[1]
Display colors	Up to 16.7 million colors supported[1,3]
Display color gamut	72% NTSC[1]
Refresh rate (maximum)	100 Hz
Display scan frequency	50-100 Hz (Vertical)[1]; 30-120 kHz (Horizontal)[1]
Response time	5ms GtG (with overdrive)[1]
Brightness	250 nits[1]
Contrast ratio	1000:1 (Static)[1] 8,000,000:1 (Dynamic)[1]
Pixel pitch	0.2745 x 0.2745 mm[1]
Pixels per inch (ppi)	93 ppi
Viewing angle	178° (Vertical) 178° (Horizontal)
Backlight type	Edge-lit
Backlight lamp life	30,000 hours
Display User Control Options	Brightness+; Color; Image; Input; Power; Menu; Management; Information; Exit
Management software	HP Display Center; HP Client Management Script Library
Low blue light modes	HP Eye Ease (TÜV Low Blue Light Hardware Solution certified)[1]
Flicker-free	Yes (TÜV certified)
Screen treatment	Anti-glare
Hardness	3H[1]
Haze	25%
VESA mount	100 x 100 mm
Adjustability	Height adjustment range: 100 mm Tilt: -5 to +23° Swivel: 360° (base swivel) Pivot: ±90°
Camera	No integrated camera
Speaker output power	2 x 2 W;
Languages	11 (English, Spanish, German, French, Italian, Netherlands, Portuguese, Japanese, T-Chinese, S-Chinese and Russian)

Connectivity and communications

Port and connectors	1 HDMI 1.4 1 DisplayPort™ 1.2 1 VGA
HDCP	Yes, DisplayPort™ and HDMI
Power supply	100 - 240 VAC 50/60 Hz (Internal)

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Specifications

Appearance

Product color	Jet black
Stand color	Jet black
Detachable stand	Yes
Physical security	Standard lock slot[7]
Base area footprint	20 x 20 cm
Dimensions without Stand (W x D x H)	53.88 x 5.2 x 32.37 cm (without stand)
Dimensions with stand (W x D x H)	53.88 x 21.21 x 44.7 cm
Weight	4.4 kg (with stand); 2.9 kg (without stand)
Packaged Dimensions (W x D x H)	61.7 x 12.4 x 40.6 cm
Packaged weight	6.3 kg

Certification and compliance

Energy efficiency class (SDR)	D 
On mode power demand in Standard Dynamic Range (SDR)	14.6 W
Standby mode power demand	0.5 W
Energy efficiency	ENERGY STAR® certified
TCO certified	TCO Certified, generation 10; TCO Certified, Edge[13]
EPEAT registered	EPEAT Gold with Climate+[8]
Ecolabels	CECP; SEPA; CEL Grade 2; Ukraine EE; Korea MEPS; California CEC
Sustainable impact specifications	Contains 20% recycled glass in the monitor panel; HP paper-based packaging is from recycled or certified sources; At least 85% post-consumer recycled plastic[9,10,11]
Certifications	Australian-New Zealand MEPS; BIS; BSMI; CB; CCC; CE; CSA; EAC; FCC; ICES; ISO 9241-307; KC; KCC; PSB; TUV Bauart; VCCI; Vietnam MEPS; WEEE; ISC; Low blue light; South Africa Energy; UAE; NRCS of South Africa; UAE ECAS; UAE RoHS; Ukraine NSoC; UL; Flicker free
Microsoft WHQL certification	Windows 11; Windows 10[12]
Environmental	Operating temperature range: 5 to 35°C Non-operating temperature range -40 to 65°C Operating humidity: 20 to 80% RH (non-condensing) Non-operating humidity: 5 - 95% Operating altitude: Up to 5,000 m Non-operating altitude: Up to 12,192 m

Additional information

Manufacturer Warranty	HP three-year limited warranty
What's in the box	Monitor; HDMI cable; Warranty card; AC power cable; Quick Setup Poster[4]
Country of origin	Made in China and Vietnam

Logistic information

Pallet Dimensions (L x W x H)	Slip sheet: 112.8 x 62.9 x 204.3 cm (20 ft, 40 ft), 112.8 x 62.9 x 245 cm (40 HQ) Pallet: 112.8 x 62.9 x 216.7 cm (20 ft, 40 ft, 40 HQ)
Pallet weight	Slip sheet: 287.3 kg (20 ft, 40 ft), 345.2 kg (40 HQ) Pallet: 299.3 kg (20 ft, 40 ft, 40 HQ)
Pallet (layers)	Slip sheet: 5 layers, 6 layers; Pallet: 5 layers
Products per layer	Slip sheet and Pallet: 9
Products per pallet	Slip sheet: 45, 54; Pallet: 45

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Product walkaround

1. Power LED
2. Power button

1. Power connector
2. DisplayPort™ 1.2
3. HDMI 1.4 port
4. VGA port
5. Security lock

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Accessories and services (not included)

HP B550 PC Mounting Bracket		Customize an altogether better solution with the HP PC B550 Mounting Bracket, which lets you attach your Z Mini Workstation directly behind select HP Z displays/Series 7 Pro monitors.[1] **Product number: 16U00AA** [1] Compatible with select HP Z Display, Series 7 Pro, P Series, and Series 3 Pro Monitors. Please check detailed compatibility on accessory datasheet.
HP Business PC Security Lock v3 Kit		Help prevent chassis tampering and secure your PC and display in workspaces and public areas with the affordable HP Business PC Security Lock v3 Kit. **Product number: 3XJ17AA**
HP Quick Release Monitor Single Arm		Enjoy more comfort and space with the HP Quick Release Monitor Arm. Easily mount and quickly release select E-Series G5[1], Series 5 Pro[2], and Series 7 Pro[3] monitors to maximize workday comfort and desk space. **Product number: 762U0AA** [1] Compatible with select HP P Series, Series 3 Pro, E Series, Series 5 Pro, and Series 7 Pro monitors. Please check detailed compatibility on accessory datasheet. [2] Requires monitor VESA adapter for selected models. Please contact your Sales agent or HP Service for further guidance.

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Footnotes

Messaging Footnotes

[1] All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.
[2] 100 Hz refresh rate can be supported via HDMI and DisplayPort™ cable connection only. 60Hz refresh rate with VGA.
[3] Ergonomic Setup Guide is available through HP Display Center. Host PC requires Windows 10 or higher. HP Display Center is available on the Microsoft store.
[4] Host PC requires Windows 10 or higher. HP Display Center is available for download on the Microsoft store for Windows or support.hp.com for Windows and MacOS.
[5] Recycled plastic is expressed as a percentage of the total weight plastic. Post-consumer recycled is based on the definition set in the EPEAT criteria.
[6] Percentage of recycled glass in the monitor panel varies by product. Recycled glass is expressed as a percentage of the total weight of the glass.
[7] HP paper and fiber based packaging for PCs, displays, home and office print, and supplies is reported by suppliers as recycled or certified, with a minimum of 97% by volume verified by HP. Packaging is the box that comes with the product and all paper-based materials inside the box. Packaging for personal systems accessories and spare parts is not included.
[8] FHD content is required to view FHD images.
[9] AC Power cable, HDMI cable, DisplayPort™ cable included. All other cables sold separately.
[10] HP CMSL is only available for Windows 10 version 1809 and higher. Some limitations may apply to legacy monitors. HP CMSL is available for download on hp.com.
[11] Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. Status varies by country. Visit www.epeat.net for more information. This product has been verified to meet ENERGY STAR® requirements.

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] DisplayPort™ 1.2 or HDMI 1.4 required to drive panel at its native resolution. The video card of the connected PC must be capable of supporting 1920 x 1080 at 60 Hz and include 1 HDMI or 1 VGA outputs to drive the monitor at the Preferred Mode.
[3] Number of colors through A-FRC technology.
[4] Included cables may vary by country.
[5] Host PC requires Windows 10 and above. HP Display Center is available on the Microsoft store.
[6] The Client Management Script Library must be downloaded to the connected PC to run CMSL commands. Some limitations may apply to legacy displays. Visit hp.com to download HP CMSL.
[7] Lock sold separately.
[8] EPEAT® registered where applicable. EPEAT® registration varies by country. See www.epeat.net for registration status by country. Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. Status varies by country. Visit www.epeat.net for more information.
[9] Recycled plastic is expressed as a percentage of the total weight plastic. Post-consumer recycled is based on the definition set in the EPEAT criteria.
[10] Percentage of recycled glass in the monitor panel varies by product. Recycled glass is expressed as a percentage of the total weight of the glass.
[11] Fiber used in paper-based packaging is sourced from certified or recycled sources per HP's Paper Sourcing Policy; certifications such as FSC® apply at the supplier level.
[12] Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows is automatically updated and enabled. High speed internet and Microsoft account required. ISP fees may apply and additional requirements may apply over time for updates. See http://www.windows.com.
[13] TCO Certified is a ISO 14024 Type 1 sustainability label for IT products. Compliance with all criteria is independently verified.

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