Datasheet

HP Series 3 Pro 23.8 inch FHD Monitor - 324ph

Redefine the everyday

Expand your view in comfort with a spacious, thoughtfully designed 23.8 inches of workspace. Boasting a crisp, smooth screen and a simple yet functional design, this HP Series 3 Pro 23.8" FHD monitor lets you work better all day.



*Product image may differ from actual product

100 Hz

Elevate your visual experience

Make your day more productive and enjoyable with an expanded workspace for projects and assignments. This sleek 23.8-inch FHD monitor boasts a quality IPS screen that's visible from any angle and up to 100 Hz refresh rate[1] for sharp images and fluid motion.

HP Eye Ease

Focus in comfort

Stay in the zone without sacrificing eye comfort with a flicker-free screen and HP Eye Ease, an always-on hardware low-blue light filter that doesn't impact color accuracy. Plus, find your perfect angle with a 100 mm height- and tilt-adjustable stand.

Clean design

Keep the focus on your screen with a sleek, simple design. Make borders disappear with a 3-sided micro-edge bezel ideal for clean dual-monitor setups and 2 x 2W downfiring speakers built right in. Easily customize settings with the joypad OSD button.

Sustainability in action

Designed with purpose

This thoughtfully designed monitor contains at least 85% recycled plastic content in the enclosure, 5% recycled metal, and 20% recycled glass in the panel[2]. Plus, it meets high energy-saving standards with ENERGY STAR® certification and EPEAT® registration[3].

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Featuring

IPS Technology
No matter where you stand, IPS technology ensures image accuracy and consistency across wide 178-degrees horizontal and vertical viewing angles.

HP Eye Ease
HP Eye Ease, an always-on, hardware low-blue light filter, helps keep your eyes comfortable throughout the day by reducing blue light without the yellow color shift.

100 Hz Refresh Rate
Experience smooth scrolling, life-like video and clear detail with a 100 Hz refresh rate that provides fluid movement from frame to frame.[1]

Height and Tilt Adjust
The 100 mm height- and tilt-adjustable slim stand helps you find the right angle so you can maximize productivity and work comfortably.

Plenty of Ports
This monitor is ready to connect for sharp FHD visuals with multiple ports including 1 x VGA, 1 x HDMI 1.4, and 1 x DisplayPort™ 1.2.[4,5]

3-Sided Micro-Edge Bezel
See and do more on your screen with a 3-sided micro-edge bezel that maximizes your viewing area for a sleek design and virtually seamless dual-monitor setups.

Built-in 2W Dual Speakers
Listen to music, meetings and more with the built-in, dual 2W downfiring speakers.

Intuitive Joypad OSD Button
Easily configure your monitor settings with the touch of a button. Simply navigate the on-screen menu with the joypad OSD button to adjust brightness and resolution.

Neat Cable Management
Be more productive with a cleaner workspace by removing the clutter of mixed cables with a neat cable management solution.

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.[6]

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.[7]

Energy Efficient Design
These monitors meet the latest energy efficiency and environmental standards for tech and IT with EPEAT® registration and ENERGY STAR® and TCO certifications.[3]

Materials that Matter
This thoughtfully designed monitor contains at least 85% recycled plastic content in the enclosure, 5% recycled metal, and 20% recycled glass in the monitor panel. It's all part of our commitment to help protect our shared future.[2]

Thoughtful Product Packaging
100% of HP paper-based packaging is from recycled or certified sustainable sources.[8]

HP PC Mounting Bracket
Save space and optimize your desk by attaching the B200 or B550 bracket to the monitor stand and your PC.[9]

Works With Chromebook Certified
The Works With Chromebook badge on a device means it's optimized to work with your Chromebook and other Chrome OS devices. Enjoy a seamless experience across Works With Chromebook certified accessories11.[10,11]

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Specifications

Display specifications

Display size	60.5 cm (23.8")[1]
Viewable diagonal size	23.8" (60.45 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; 720 x 400 @ 70 Hz; 800 x 600 @ 60 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 @ 60 Hz; 640 x 480 @ 75 Hz (digital inputs only); 800 x 600 @ 75 Hz (digital inputs only); 1024 x 768 @ 75 Hz (digital inputs only); 1280 x 1024 @ 75 Hz (digital inputs only); 1920 x 1080 @ 50 Hz (digital inputs only); 1920 x 1080 @ 75 Hz (digital inputs only); 1920 x 1080 @ 100 Hz (digital inputs only); 1280 x 800 @ 60 Hz
Panel type	IPS; LCD[1]
Bezel	3-sided borderless
Panel active area	52.7 x 29.65 cm
Panel bit depth	8 bit (6 bit + FRC)[1]
Display colors	Up to 16.7 million colors supported[1,3]
Display color gamut	72% NTSC
Refresh rate (maximum)	100 Hz
Display scan frequency	48-100 Hz (Vertical)[1]; 30-115 kHz (Horizontal)[1]
Response time	5ms GtG (with overdrive)[1]
Brightness	250 nits[1]
Contrast ratio	1000:1 (Static)[1] 8000000:1 (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; WLED
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
User updateable firmware	No
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°
Camera	No integrated camera
Speaker output power	2 x 2 W; Built-in speakers
Languages	11 (English, Spanish, German, French, Italian, Netherlands, Portuguese, Japanese, T-Chinese, S-Chinese and Russian)
Special features	Works with Chromebook

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	Black
Stand color	Black
Detachable stand	Yes
Physical security	Standard lock slot[5]
Base area footprint	18.5 x 17.8 cm
Dimensions without Stand (W x D x H)	53.89 x 4.94 x 32.42 cm (without stand)
Dimensions with stand (W x D x H)	53.89 x 19.63 x 46.92 cm
Weight	3.4 kg (without stand); 4.71 kg (with stand)
Packaged Dimensions (W x D x H)	59.5 x 12.4 x 39.1 cm
Packaged weight	6.74 kg

Certification and compliance

Energy efficiency class (SDR)	D 
On mode power demand in Standard Dynamic Range (SDR)	14 W
Standby mode power demand	0.5 W
Energy efficiency	ENERGY STAR® certified
TCO certified	TCO Certified, generation 10; TCO Certified, Edge[15]
EPEAT registered	EPEAT registered with Climate+[14]
Sustainable impact specifications	At least 85% post-consumer recycled plastic; At least 5% recycled metal; Contains 20% recycled glass in the monitor panel; Molded paper pulp cushion inside box is made of 100% recycled or certified sources; Low halogen[6,7,8,9,10]
Certifications	Australia MEPS; Bauart; CCC; CE; CEL; C-Tick; cTUVus; EAC; E-standby (Korea); EUP Lot-5; EUP Lot-6; FCC; ISO 9241-307; KC (Korean) requirements; KCC (Korean) requirements; NOM (Mexico); PSB for Singapore; RCM; SEPA; S-Mark for Argentina; Taiwan BSMI; VCCI; Vietnam MEPS; Ukraine Energy label; California Energy Commission (CEC); South Africa Energy; EUP Lot 26; Mexico Energy; UAE; TGM; India BIS; Cambodia ISC; IC; NRCS; PSE; Ukraine CoC; Ukraine DOC; CEL Grade 2; CB(62368-1); CB 60950
Microsoft WHQL certification	Windows 11; Windows 10[13]
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; Quick Setup Poster; AC power cord[4]
Country of origin	Made in China and Thailand

Logistic information

Pallet Dimensions (L x W x H)	Slip sheet: 120 x 100.2 x 198 cm (20 ft, 40 ft) Slip sheet: 120 x 100.2 x 237.4 cm (40 ft HQ) Pallet: 120 x 100.2 x 210 cm (20 ft, 40 ft) Pallet: 120 x 100.2 x 249.4 cm (40 ft HQ)
Pallet weight	Slip sheet: 5397 kg (20 ft) Slip sheet: 11328.2 kg (40 ft) Slip sheet: 13592.84 kg (40 ft HQ) Pallet: 5412 KG (20 ft) Pallet: 11343.2 kg (40 ft) Pallet: 13607.84 kg (40 ft HQ)
Pallet (layers)	Pallet: 5 layers (20 ft, 40 ft); Slip sheet: 6 layers (40 ft HQ)
Products per layer	16
Products per pallet	80

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Product walkaround



1. Power button
2. Power LED



1. Joypad OSD button
2. Security cable slot
3. Power connector
4. DisplayPort™ 1.2
5. HDMI 1.4 port
6. VGA port

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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 B200 PC Mounting Bracket		Create a compact, efficient workspace with the HP B200 PC Mounting Bracket. Simply attach the bracket to the base of your select P G5 Series monitor and easily slide in your select HP Desktop Mini PC[1] for an optimized space-saving solution that doesn't interfere with port access or tilt adjustment. **Product number: 762T5AA** [1] Compatible with select HP 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. 100 Hz refresh rate can be supported via HDMI and DisplayPort™ cable connection only. 60 Hz refresh rate with VGA.
[2] Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 EPEAT® standard. Recycled plastic is expressed as a percentage of the total weight plastic. 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. 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.
[3] Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. EPEAT® status varies by country. Visit www.epeat.net for more information.
[4] FHD content is required to view FHD images.
[5] Cable included in box varies by region.
[6] Host PC requires Windows 10 or higher. HP Display Center is available on the Microsoft store.
[7] HP CMSL is estimated to be available between November 2024 to April 2025. HP CMSL is only supported on 64-bit PowerShell 5.1 and higher. CMSL Support Windows 10 version 1809 and higher, and Windows 11. Some limitations may apply to legacy displays. Visit support.hp.com to download HP CMSL.
[8] 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.
[9] Mounting hardware is sold separately. B200 bracket is compatible with all P G5 series, Series 3 Pro and these select mini PCs: Elite Mini 800 G9 UMA sku, Elite Mini 600 G9, Pro Mini 400 G9, Pro Mini 260 G9, EliteDesk 800 G8 UMA sku, EliteDesk 805 G8 UMA sku, EliteDesk 800 G6 UMA sku, EliteDesk 805 G6 UMA sku, ProDesk 600 G6, ProDesk 400 G6, 260 G4 Desktop Mini.
[10] Google tested to meet Chromebook compatibility standards.
[11] This product works with devices capable of running the latest version of Chrome OS and has been certified to meet Google's compatibility standards. Google is not responsible for the operation of this product or its compliance with safety requirements. Chromebook and the Works With Chromebook badge are trademarks of Google LLC.

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 with 8-bit color using one HDMI, DisplayPort™ or VGA.
[3] Number of colors through A-FRC technology.
[4] Included cables may vary by country.
[5] Lock sold separately.
[6] ITE Derived Closed Loop Plastic percentage is based on the definition set in the 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] 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.
[9] 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.
[10] External power supplies, WWAN modules, power cords, cables and peripherals excluded. Service parts obtained after purchase may not be Low Halogen.
[11] Host PC requires Windows 10. HP Display Center is available on the Microsoft store.
[12] HP CMSL is estimated to be available between November 2024 to April 2025. HP CMSL is only supported on 64-bit PowerShell 5.1 and higher. CMSL Support Windows 10 version 1809 and higher, and Windows 11. Some limitations may apply to legacy displays. Visit support.hp.com to download HP CMSL.
[13] 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.
[15] TCO Certified is a ISO 14024 Type 1 sustainability label for IT products. Compliance with all criteria is independently verified.

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