Datasheet

HP Z24q G3 QHD Display

The Ideal Space to Create

The Z24q G3 displays professional grade color and design optimized for hybrid or office work. Bring your ideas to life with industry-leading color accuracy and HDR 400 or take advantage the pixel dense QHD 60.5 cm (23.8-inch) screen—perfect for creating wherever your desk may be.

*Product image may differ from actual product

Closing the Gap Between Screen and Reality

Trust the colors you see on screen with the world class Z by HP color accuracy you expect. Equipped with the creative color gamuts you work in most, you'll have all the shades and hues you need for web, photography, and video creation on Mac® or PC. Lean into realism with HDR 400 for darker blacks and brighter whites.

Stunning Detail. Smoother Performance.

Experience every pixel and movement with the precision of reality in crisp QHD resolution and a fast 90hz refresh rate[1]. Navigate your workflow in Windows 11 and Adobe® with high definition and smooth motion as you scroll, click, and direct your projects.

Expand Your Canvas

Finally, a display just as resourceful as you. Make the most of your desk and upgrade your virtual meetings by connecting your HP Z24m G3 display via daisy-chain with just one cable[8]. The razor-thin, frameless designs of both monitors match perfectly while maximizing your screen and integrating premier conferencing features.

Sustainability in action

Build for a better tomorrow

Innovating with purpose and intention to drive impactful, positive, lasting change.

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Featuring

Colors Calibrated to Perfection
Every HP Z Display undergoes factory color calibration and testing to achieve a Delta E of less than 2, making color differences virtually indistinguishable to the human eye.

The Color Gamuts You Use Most
Create in the color gamuts you use most. 99%sRGB for web, 90% P3 for photography, and BT.709 for HD video.

Shine Brightly
With 400 nits of brightness, you can clearly see your screen when you're in the sun, by a bright window, or under artificial lighting.[1]

Lean into Realism with HDR 400
Lean into realism with HDR 400 for deeper blacks, brighter whites, and richer colors.

Crisp QHD Resolution
See 2x the details on your 60.5 cm (23.8-inch) screen with crisp QHD resolution.

Display More with DisplayPort™ 1.4
Display more with DisplayPort™ 1.4 and connect up to 3 QHD displays.

Endless Adjustability
With 4-way adjustability you can customize pivot, tilt, height adjust, and swivel settings to fit you, your desk, and your needs.

Always-on, True Color, Low-Blue Light Filter
HP Eye Ease is a filter that keeps you comfortable by reducing blue light without impacting color accuracy.

Monitors Containing Recycled Materials
HP is helping conserve natural resources, reduce waste sent to landfills, and lower energy consumption by using 90% recycled plastics in the plastics of Z G3 Monitors.[2]

Thoughtful Product Packaging
HP is committed to reducing plastic in landfills by using 100% recyclable packaging that meets recycling requirements, so it can stay out of the landfill.[3,4]

More Ports. More Flexibility.
Packed with ports including HDMI, DisplayPort™, four USB-A 3.2 and a USB-B ports.[5]

Easily Personalize and Adjust Your Display
Customize your display with easy, intuitive HP Display Center software that lets you tailor your settings, partition screens, and even dim the screen.[6]

Remote Management Reimagined
Manage deployment, asset tracking and monitor settings remotely.[7]

3-year Limited Warranty
Get peace of mind with a 3-year warranty.

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Specifications

Display specifications

Display size
23.8"[1]
Display size (diagonal, metric)
60.5 cm (23.8")
Aspect ratio
16:9
Curvature
Flat
Native resolution
QHD (2560 x 1440)[1,5]
Resolution (maximum)
QHD (2560 x 1440 @ 90 Hz)
Resolutions supported
640 x 480; 720 x 400; 800 x 600; 1024 x 768; 1280 x 720; 1280 x 1024; 1440 x 900; 1600 x 900; 1600 x 1200; 1680 x 1050; 1920 x 1080; 1920 x 1200; 2560 x 1400
Panel type
IPS[1]
Bezel
4-sided micro-edge
Panel active area
52.68 x 29.64 cm
Panel bit depth
10 bit (8 bit + FRC)
Display colors
Up to 1.07 billion colors supported[12]
Display color gamut
99% sRGB; 90% DCI-P3; 99% BT.709
Display scan frequency
50-90 Hz (Vertical) 30-140 KHz (Horizontal)
Response time
5ms GtG (with overdrive)[1]
Brightness
400 nits[1]
Contrast ratio
1000:1 (Static)[1] 10000000:1 (Dynamic)[1]
Pixel pitch
0.21 x 0.21 mm
Pixels per inch (ppi)
123 ppi
Viewing angle
178° (Vertical) 178° (Horizontal)
Backlight type
Edge-lit
Display features
On-screen controls; Anti-glare; Height Adjust/Tilt/Swivel/Pivot; HP Eye Ease
Display User Control Options
Brightness; Color control; Contrast; Exit; Image control; Information; Language; Management; Power control; Input control; Menu control
Management software
HP Display Center; HP Display Manager[6]
Low blue light modes
Yes, HP Eye Ease (TÜV Low Blue Light Hardware Solution certified)
Flicker-free
Yes
Screen treatment
Anti-glare
Hardness
3H
VESA mount
100 mm x 100 mm (bracket included)
Height adjustment range
150 mm
Tilt
-5 to +20°
Swivel
±45°
Pivot
±90

Connectivity and communications

Port and connectors
1 HDMI 2.0
1 DisplayPort™ 1.4
1 DisplayPort™ 1.4-out
4 SuperSpeed USB Type-A 5Gbps signaling rate
1 USB-B
HDCP
Yes, DisplayPort™ and HDMI
Power supply
100 - 240 VAC 50/60 Hz
(Internal)
Power consumption
74 W (maximum), 34 W (typical), 0.5 W (standby) 0.5 W (standby)
Standby mode power demand
0.5 W (standby)

Logistics and Physical

Product color
Black and Silver
Detachable stand
Yes
Physical security
Security lock-ready[2]
Dimensions without Stand (W x D x H)
53.84 x 3.85 x 31.37 cm
Dimensions with stand (W x D x H)
53.84 x 19.5 x 48.93 cm
Weight
4.8 kg (With stand.)
Packaged Dimensions (W x D x H)
62.5 x 14.1 x 37.3 cm
Packaged weight
7.4 kg

Certification and compliance

Energy efficiency
F ENERGY STAR® certified
Ecolabels
EPEAT® registered[3]
Environmental specifications
85% post-consumer recycled plastic; Low Halogen; Outside box and corrugated cushions are 100% sustainably sourced and recyclable; Designed with recycled metals; Contains Ocean-Bound plastic[4,7,8,9,10]
Certifications
Australian-New Zealand MEPS; BIS; BSMI; CB; CCC; CE; CEL; cTUVus; EAC; ENERGY STAR®; FCC; ISO 9241-307; KC/KCC; NOM; PSB; SEPA; TUV/GS; TUV-S; VCCI; Vietnam MEPS; WEEE; ISC; Low blue light; CEL Grade 3; South Africa Energy; ICE; UAE; Ukraine certificates[13]
Operating temperature range
41 to 95°F
Operating humidity range
20 to 80% non-condensing

Additional information

Manufacturer Warranty
3 year limited warranty including 3 year of parts and labour. Certain restrictions and exclusions apply.
What's in the box
Monitor; DisplayPort™ cable; HDMI cable; VESA Mount adapter; Warranty card; USB Type-A to B cable; Quick Setup Poster; AC power cord; Color calibration report[11]

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Accessories and services (not included)

HP B550 PC Mounting Bracket

Customize an altogether better solution with the HP Z PC Mounting Bracket for Z Displays, which lets you attach a Z Mini Workstation directly behind select Z Displays[1] and P series.
Product number: 16U00AA
[1] Compatible with 724pf, 724pn, 724pu, 732pk, Z24f G3, Z24n G3, Z24u G3, Z27q G3, Z27u G3, Z27k G3, Z27xs G3, Z25xs G3.

HP Z G3 Conferencing Speaker Bar

What you say and hear is just as important as what you see on conference calls. If you are looking for clearer, richer sound along with style and flexibility, look no further than the Z G3 Conferencing Speaker Bar to improve your audio experience[1].
Product number: 32C42AA
[1] Mounting is compatible only for the HP 724pf Display, HP 724pn Display, HP 724pu Display, HP 732pk Display, HP Z24f G3 Display, HP Z24n G3 Display, HP Z24u G3 Display, HP Z27q G3 Display, HP Z27u G3 Display, HP Z27k G3 Display, HP Z25xs G3 Display, HP Z27xs G3 Display.
[2] Must paired with Z G3 Conferencing Speaker Bar Stand (74N60AA) to be compatible with selected Series 7 Pro monitors 727pq, 727pu and 727pk.

HP Quick Release Bracket 2

Use the HP Quick Release Bracket 2 to attach your HP Desktop Mini to an HP display[1] and a variety of stands, arms or wall mounts.[2] The failsafe "Sure-Lock" mechanism snaps the PC securely in place, and can be further secured with a theft-deterrent security screw.
Product number: 6KD15AA

HP Integrated Work Center for Desktop Mini and Thin Client

Make the most of small work spaces with an HP IWC Desktop Mini/Thin Client that lets you create a compact desktop solution by combining a display[1] with an HP Desktop Mini, HP Thin Client or HP Chromebox[1] and giving you convenient front access to all of its inputs.
Product number: G1V61AA
[1] Not all 24-inch monitors supported please refer list of compatible monitors.
[2] IWC is compatible with displays up to 24 diagonal inches. See QuickSpecs for exact device compatibility.

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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.
[8] Not compatible with Mac products.
[2] Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 EPEAT standard. Plastics consist of 90% Post-Consumer Recycled, with 85% Recycled Information Technology Equipment (ITE) + 5% Ocean-Bound Plastics (PET).
[3] 100% outer box/corrugate cushion packaging made from sustainably sourced certified and 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.
[4] Recycling facilities not available in all locations.
[5] Comes with Power Cord, USB Type-A to B cable, HDMI and DisplayPort™ cables, all other cables sold separately.
[6] Host PC requires Windows 10 or higher. HP Display Center is available on the Microsoft store.
[7] HP Display Manager software agent must be running on a web server and host PC. Some limitations may apply to legacy monitors.

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.
[3] 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.
[4] External power supplies, WWAN modules, power cords, cables and peripherals excluded. Service parts obtained after purchase may not be Low Halogen.
[5] 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 2560 x 1440 at 60 Hz with 10-bit color using one DisplayPort™, HDMI. The video card of the connected PC must be capable of supporting 2560 x 1440 and include one DisplayPort™ or one HDMI outputs to drive the monitor at the Preferred Mode.
[6] HP Display Center requires Windows 10 (or higher) on host PC and is available from the Windows store.
[7] 100% outer box packaging and corrugated cushions made from sustainably sourced certified and recycled fibers.
[8] Percent of recycled metal varies by product.
[9] Percentage of ocean-bound plastic contained in each component varies by product.
[10] Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 standard.
[11] Included cables may vary by country.
[12] Number of colors through A-FRC technology.
[13] Monitors produced from June 2024 comply with China regulation GB 21520-2023.

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