

Technical Specifications

HP DreamColor Z24x G2 24-inch Display



- 1. Programmable hotkey Function buttons** 4 programmable hotkey function buttons with 12 mappable functions
- 2. Power/LED** Power On/Off

LED:
fully powered = white
sleep mode = amber
sleep timer mode = flashing amber
- 3. Cable Management** Effortless routing of cables through the cable management tunnel at the base of the column

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Rear



Side

1. Security Lock Slot

1. 2- USB 3.0



- 1. Power Switch**
- 2. Power Cable Connector**
- 3. DisplayPort™ 1.2 (input)**
- 4. DVI-D**
- 5. HDMI 1.4**
- 6. DisplayPort™ 1.2 (output)**
- 7. Audio out (analog)**
- 8. 1- USB 3.0 (upstream)**
- 9. 2- USB 3.0 (downstream)**

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Models: 1JR59A4

Panel	Type	24-inch IPS Gen 2, LED Backlit
	Viewable Image Area (diagonal)	60,96 cm (24 in) widescreen; diagonally measured
	Panel Active Area (W x H)	52 x 32,56 cm (20.47 × 12.81 in.)
	Panel Type	Gen 2 IPS (Gen 2 technology, also called AH-IPS, enables lower power consumption)
	Resolution	1920 × 1200 @ 60 Hz
	Aspect Ratio	16:10
	Viewing Angle (typical)	Up to 178° horizontal/178° vertical (10:1 minimum contrast ratio)
	Brightness (typical)*	350 cd/m ²
	Contrast Ratio (typical)*	1,000:1
	Dynamic Contrast Ratio (typical)*	5,000,000:1
	Response Time (typical)*	6 ms gray-to-gray
	Pixel Pitch	0.270 mm
	Backlight Lamp Life (to half brightness)	30,000 hours minimum
	Color Support**	10-bit (8+2 FRC), up to 1.07 billion colors
	Color Gamut	100% of sRGB, 100% of BT.709, 99% of AdobeRGB, 97% of DCI-P3

*All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

** With the use of FRC technology.

User Controls	On Screen Display (OSD) User Controls	Color Space, Video Input, Image Control, PIP Control, Language, Management, Menu and Message Control, Information, Factory Reset
	Monitor Control Buttons or Switches	Master power switch (rear), secondary power, 5 programmable OSD/function buttons
	User-Assignable Function Buttons	Yes, 4
	Languages	10 (English, Spanish, German, French, Italian, Netherlands, Portuguese, Japanese, T-Chinese and S-Chinese)
Color Management	Factory Color Calibrated	Yes (sRGB, BT.709, Adobe RGB)
	Color Space / Subsampling Support	RGB 4:4:4, YC _B C _R 4:4:4, YC _B C _R 4:2:2
	RGB Channel Adjust	Yes, Gain
	User Calibration Support	Host software (Windows or macOS)
	External Calibration Instrument Support	X-Rite i1Display Pro, Klein K10-A
Signal Interface/ Performance	Horizontal Frequency	24-80 kHz
	Vertical Frequency	24-60 Hz
	Native Resolution	1920 × 1200 @ 60 Hz
	Preset VESA Graphic Modes (non-interlaced)	640 × 480 @ 60Hz 800 × 600 @ 60 Hz 1024 × 768 @ 60 Hz 1280 × 720 @ 60 Hz 1280 × 960 @ 60 Hz 1280 × 1024 @ 60 Hz 1440 × 900 @ 60 Hz

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		1600 × 1200 @ 60 Hz
		1680 × 1050 @ 60 Hz
		1920 × 1080 @ 60 Hz
		1920 × 1200 @ 60 Hz
	Maximum Pixel Clock Speed	170 MHz
	Anti-Glare	Yes
	Flicker Free	Yes
	Default Color Temperature	D65 (6504K)

VIDEO/OTHER INPUTS

Connector Types	DisplayPort™	(1) DisplayPort™ 1.2 (1 input and 1 output)
	HDMI	(1) HDMI 1.4
	DVI-D	(1) Single Link
	HDCP support	Yes, all video inputs
	Audio	(1) Audio out (analog)
USB Port Specifications	USB Version	3.0
	USB Hub	Yes
	Downstream Ports	4 Ports
	Upstream Ports	1 Port
Cables Included	Video Cables Included	(1) DVI-D 1,8 m (5.9 ft), (1) DisplayPort™ 1,8 m (5.9 ft)
	USB Cable Included	(1) USB 3.0 1,8 m (5.9 ft)

POWER

Power	Power Supply	Internal
	Input Power	90 - 265 VAC at 45 - 63 Hz
	ENERGY STAR® Power¹	18.57 W
	Typical Power²	13.5 W
	Maximum Power³	54.18 W
	Energy Saving/Standby Mode	0.5 W
	Power Cable Length	1,9 m (6.2 ft)

DIMENSIONS AND WEIGHT

Mechanical	Dimensions (W x D x H)	Unpacked w/stand (highest setting)	55,94 x 23,8 x 52,5 cm (22 x 9.4 x 20.7 in)
		Unpacked w/o stand (head only)	55,94 x 6,65 x 36,5 cm (22 x 2.6 x 14.4 in)
		Packaged	66 x 45 x 30,1 cm (26 x 17.7 x 11.8 in)
	Weight	Head Only	4,73 kg (10.4 lb)
		Unpacked	6,98 kg (15.4 lb)
		Packaged	8,98 kg (19.7 lb)

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MONITOR FEATURES

Plug and Play	Yes
Color	Black
4-Way Comfort Adjust	Easily adjust the display in height, tilt, swivel and pivot for maximum comfort.
Integrated Quick Release⁹	An easy-to-use, VESA-compliant, LCD monitor mounting solution that allows you to quickly and securely attach an LCD monitor to a variety of stands, brackets, arms or wall mounts.
Cable Management	Enhanced cable management for easy concealment of power, video and USB cables. Effortless routing of cables through the cable management tunnel at the base of the column.
Detachable Stand	Yes, ships detached
Tilt Range	-5° to + 20° vertical
Swivel Range	45°L to 45°R
Display height adjustment:	Adjustment Range: 151 mm Minimum (desk to bottom of display): 16 mm Maximum (desk to bottom of display): 167 mm
Pivot Rotation	Yes
VESA Mounting	Yes, 100 mm with integrated mount
Security Lock-Ready	Yes
Picture-in-Picture, Picture-by-Picture	Yes

ENVIRONMENTAL

Specifications

Temperature - Operating	5° to 35° C (41° to 95° F)
Temperature - Non-operating	-20° to 60° C (-4° to 140° F)
Humidity - Operating	20% to 80% Relative Humidity non-condensing
Humidity - Non-operating	5% to 95%, 38.7° C max wet-bulb
Altitude - Operating	0 to 5,000 m (0 to 16,404 ft)
Altitude - Non-operating	0 to 12,192 m (0 to 40,000 ft)
White LED Backlights	Yes
CCFL Panel	No
Arsenic-Free Display Glass	Yes
Low Halogen⁴	Yes (except cables)
Mercury-Free Display Backlights	Yes

OPTIONS

(Each sold separately)

HP USB Graphics Adapter— Part number NLS71AA	Enables connection of up to six simultaneous displays to help you boost productivity and multi-task across several open applications. Use one Adapter to bridge between a notebook or desktop PC and second monitor or use multiple Adapters to connect several displays to each other.
HP Thin Client Mount Kit— Part number E5J35AA	Attach your HP Thin Client or USDT PC to the back of select HP Z Displays and maintain optimal ergonomic adjustability with the HP Thin Client Mount Kit. Simply mount an HP Thin Client to the Kit's VESA plate, slide it into place on the back of an HP Z24i, Z27i or Z30i IPS Display stand, and you're ready to go.

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**HP LCD Speaker Bar—
Part number NQ576AA**

Powered directly by the monitor or the PC, the Speaker Bar seamlessly attaches to the monitor's lower bezel to bring full audio support to select HP LCD monitors. Features include dual speakers with full sound range and external jack for headphones. Sold separately.

**HP Integrated Work Center Stand
- USDT / Thin Clients —
Part numbers E8H16AA/AT
(black and meteorite),
LH526AA/AT (black and silver).⁸**

HP Integrated Work Center Stand - USDT / Thin Clients - The HP Integrated Work Center Stand is designed to help maximize the use of limited desk space without compromising performance or productivity by accommodating an HP Ultra-slim Desktop PC or an HP Thin Client, and most HP 17 to 24-inch¹ diagonal LCD monitors, with VESA standard mounting brackets.

**HP Integrated Work Center Stand
for Small Form Factors v3 —
Part number F2P06AA⁷**

Maximize your available work space with the stylish and innovative HP Integrated Work Center for Small Form Factors v3 (HP IWC SFF v3), designed to match the newest HP PC designs. Create a customized "all-in-one" solution by combining an HP Small Form Factor (SFF) Business Desktop PC or Workstation with an LED monitor up to 24 diagonal inches.

**HP Single Monitor Arm—
Part number BT861AA**

The flexible design of the HP Single Monitor Arm provides a seemingly endless range of display adjustments with an amazing 13 inches of lift, 50 degrees of tilt, and 360 degrees of pan and rotation – all at your fingertips -- helping you stay comfortable and productive throughout the day.

**HP Adjustable Dual Display
Stand—Part Number AW664AA**

Premium space-saving dual screen solution provides access to more monitor real estate and makes it possible to manage multiple applications simultaneously. Weight adjustable for dual monitors from 17-24". Rotate displays into portrait/landscape positions.

**HP Display and Notebook II
Stand—Part number E8G00AA**

Quickly and easily create a comfortable workspace for your notebook or notebook and docking station and an external display with the HP Display and Notebook II Stand, which brings your notebook PC, docking station, and display up off the desk.

**HP Adjustable Display Stand—
Part number AW663AA**

Turn your HP Business Notebook into a desktop solution supporting up to a 24 inch display. A dual-hinged, smooth-motion display stand allows for greater depth, height and tilt adjustment for maximum comfort.

**HP DisplayPort™ Cable Kit —
Part number VN567AA**

Connects a DisplayPort™ connector on an HP Business Desktop computer to a DisplayPort™ connector on a monitor.

**HP Business PC Security Lock
Kit—Part number PV606AA**

Attaches to the rear of the PC with a six-foot steel cable that can be used to secure a PC or peripherals such as mice, keyboards, monitors or USB security devices to protect them against unauthorized removal by physically connecting the system to an anchor point.

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WHAT'S IN THE BOX?

What's in the box?	Monitor and Accessories	HP DreamColor Z24x G2 24-inch Display, AC power cord, USB 3.0 cable, DVI-D cable, DisplayPort™ 1.2 cable
	Documentation	DVD documentation kit, factory calibration report
Other	Software included	HP DreamColor Calibration
	User Guide Languages	English, Arabic, S. Chinese, T. Chinese, Czech, Danish, Dutch, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Kazakh, Korean, Norwegian, Polish, Brazilian Portuguese, Russian, Slovenian, Spanish, Swedish and Turkish.
	Warranty Languages	English, Arabic, S. Chinese, T. Chinese, Czech, Danish, Dutch, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Kazakh, Korean, Norwegian, Polish, Brazilian Portuguese, Russian, Slovenian, Spanish, Swedish and Turkish.
	Country of Origin	China

CERTIFICATION AND COMPLIANCE

Certification and Compliance	Microsoft WHQL Certification (Windows 10, Windows 8 and Windows 7), ENERGY STAR® 7 Certified, SmartWay Transport Partnership (NA only)
Compatibility	Compatible with platforms using the VESA standard video modes. Recommended for use with HP products.
Service and Warranty	Protected by HP, including a 3 year standard limited warranty. Optional HP Care Pack Services are extended service contracts that extend your protection beyond the standard warranties. ⁶
Zero Bright Dot Policy*	Yes

*The HP Pixel Policy allows no bright sub-pixel defects for this display. For complete details, see <http://support.hp.com/us-en/document/c00288895>.

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ENERGY STAR is a registered trademark owned by the U.S. Environmental Protection Agency. DisplayPort™ and the DisplayPort™ logo are trademarks owned by the Video Electronics Standards Association (VESA®) in the United States and other countries.

1. ENERGY STAR® power is measured with factory defaults, brightness at ENERGY STAR® level of 200 cd/m² and with no USB loads.
2. Default Power is measured with factory defaults, including factory default brightness and USB ports loaded at 25% of maximum.
3. Maximum Power is measured with monitor at maximum brightness and with USB ports loaded at 100% of maximum.
4. External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen.
5. EPEAT® Gold where HP registers commercial display products. See www.epeat.net for registration status in your country.
6. Service levels and response times for HP Care Pack Services may vary depending on your geographic location. Service starts from date of hardware purchase. Restrictions and limitations apply. See <http://www.hp.com/go/cpc> for details.
7. 17 to 24-inch diagonal monitors need to meet supported weight limits of 6 to 12.1 lbs. (2.7 to 5.5 kg).
8. The Integrated Work Center Stand has been designed to support 17 to 24-inch diagonal HP LCD monitors from 2.3 kg to 5.2 kg (5.07 lbs to 11.24 lbs).
9. The HP Quick Release has been designed to support a maximum of up to 24 lbs (10.9 kg) for all devices mounted. Because mounting surfaces vary widely and the final mounting method and configuration may vary, mounting fasteners are not supplied (other than the VESA-compliant screws). HP recommends that you consult with a qualified engineering, architectural or construction professional to determine the appropriate type and quantity of mounting fasteners required for your application and to ensure that your mounting solution is properly installed to support applied loads.

