QuickSpecs

Overview

HP DreamColor Z27x Professional Display
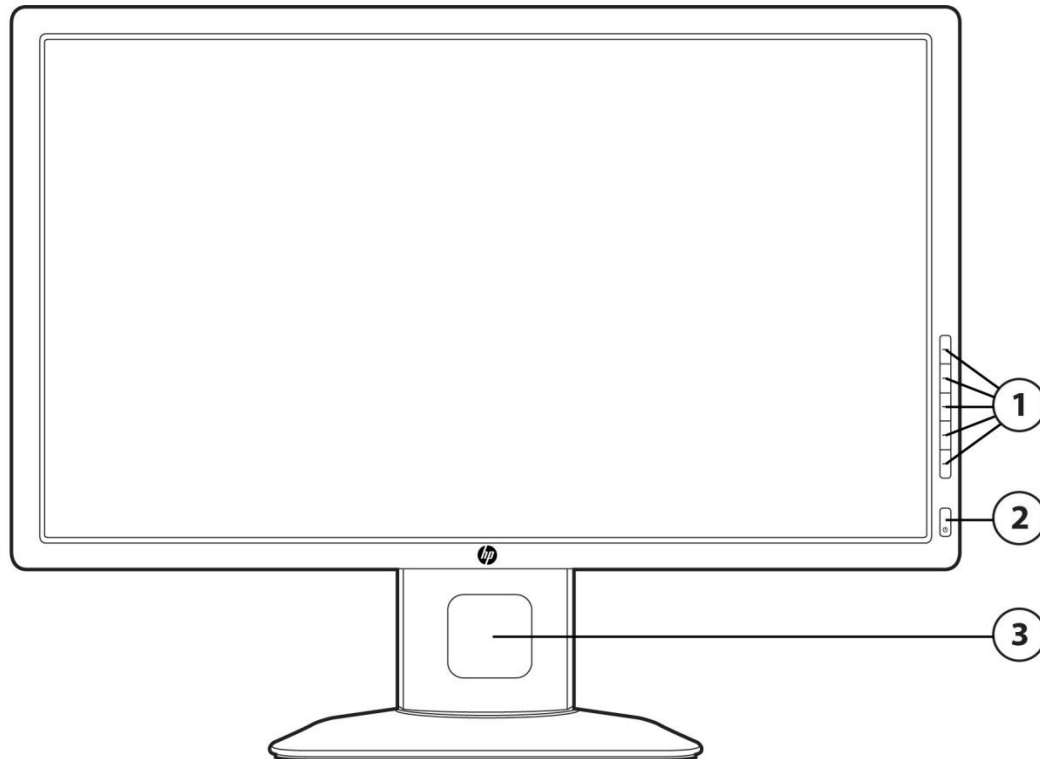
1.	**Programmable Function buttons**	4 user-assignable function buttons
2.	**Power/LED**	Power On/Off

		LED:
		fully powered = white or red, user selectable;
		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.

Technical Specifications

Models: D7R00A4, D7R00A8, D7R00AS, D7R00AT

Panel	Type	27-inch IPS Gen 2, with HP Ultra Black techonology and advanced wide gamut LED Backlight. (Gen 2 IPS technology, also called AH-IPS, enables lower power consumption).
	Viewable Image Area (diagonal)	**68,58 cm** (27 in) widescreen; diagonally measured
	Panel Active Area (W × H)	**59,67 × 33,56 cm** (23.49 × 13.21 in.)
	Resolution	2560×1440 @ 60, 50 or 48 Hz native sync
	Aspect Ratio	16:9
	Viewing Angle	Up to 178° horizontal/178° vertical typical (10:1 minimum contrast ratio)
	Brightness	48 to 250 cd/m^2 calibrated
	Contrast Ratio	800:1 minimum
	Response Time *	12 ms Gray to Gray typical
	Pixel Pitch	0.2331 mm
	Backlight Lamp Life (to half brightness)	50,000 hours minimum
	Color Production	Up to 1.07 billion colors
	Color Gamuts (Calibrated)	100% of sRGB, 100% of BT.709, 100% of AdobeRGB, 99% of DCI-P3 (CIE 1976)

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

User Controls	Buttons or Switches	Four user-definable function keys, Open/Close Menu, Power
	Languages	10 (English, Spanish, German, French, Italian, Netherlands, Portuguese, Japanese, T-Chinese and S-Chinese)
	On Screen Display (OSD) User Controls	Color Space, Video Input, Image Adjustment, PIP Control, Language, Management, Menu and Message Control, Information, Factory Reset, Display Mode Information
DreamColor Functions	DreamColor Engine 2	Internal color palette of 4.4 Trillion colors driven by 14-bit internal color precision. The engine outputs 10-bit color that produces 1,024 gray levels per channel and up to 1.07 billion on-screen colors. Includes 4K input support.
	Factory Calibrated Presets	sRGB D65, sRGB D50, AdobeRGB, BT.709, BT.2020, DCI-P3 and Native
	User Calibration support	Calibrate with direct-connection of optional HP DreamColor calibration solution (listed under options below) or with direct-connection of a range of third-party professional color measurement devices.
	DreamColor Ports	Two HP DreamColor USB ports allow connection of professional measurement device for calibration or flash drive for customized calibration and firmware updates.
Signal Interface/	Horizontal Frequency	24–113 kHz

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Performance	**Vertical Frequency**	24–60 Hz
	Native Resolution	2560×1440 @ 60, 50 or 48 Hz
	Preset Graphic Modes (non-interlaced)	640×480 @ 59.94 or 60 Hz (progressive or interlaced) 720×480 @ 59.94 or 60 Hz (progressive or interlaced, 4:3 or 16:9) 720×576 @ 50 Hz (progressive or interlaced, 4:3 or 16:9) 800×600 @ 60.317 Hz 1024×768 @ 60.004 Hz 1280×720 @ 23.976, 24, 29.97, 30, 50, 59.94 or 60 Hz 1280×1024 @ 60.020 Hz 1366×768 @ 60.000 Hz 1600×1200 @ 60.000 Hz 1920×1080 @ 23.976, 24, 29.97, 30, 50, 59.94 or 60 Hz (progressive) 1920×1080 @ 29.97, 30, 50, 59.94 or 60 Hz (interlaced) 1920×1200 @ 59.950 Hz 1920×1200 @ 59.995 Hz 2048×1080 @ 24, 25, 48, 50, or 60 Hz 2560×1440 @ 48, 50 or 60 Hz 2560×1600 @ 59.97 Hz 3840×2160 @ 24, 25 or 30 Hz 4096×2160 @ 24 Hz
	Maximum Pixel Clock Speed	297 MHz
	User Programmable Modes	10
	Anti-Glare	Yes
	Factory Calibrated Color Temperatures	D65, D50 or P3
Video/Other Inputs	**Plug and Play**	Yes
	Self-Powered USB 3.0 Hub	4 USB 3.0 (two side and two rear)
	DreamColor Ports	2 USB 2.0 DreamColor ports (for connecting color instruments and flash drives)
	Input Connectors	(1) DisplayPort 1.2, (1) DisplayPort 1.1, (1) HDMI 1.4; HDCP support on all inputs.
	Video Cables Included	(1) DisplayPort **1,8 m** (5.9 ft); (1) HDMI **1,8 m** (5.9 ft); (1) Mini-DisplayPort to DisplayPort **1,8 m** (5.9 ft);
	USB Cable Included	(1) USB 3.0 **1,8 m** (5.9 ft)
	Audio	(1) Analog audio out, (1) Digital/SPDIF audio out
	Audio Cable Included	(1) Audio cable **1,8 m** (5.9 ft)
Power	**Power Supply**	Internal
	Input Power	90–265 VAC at 45–63 Hz
	ENERGY STAR® Power[1]	54.1 W
	Default Power[2]	65 W
	Maximum Power[3]	< 110 W
	Sleep Power	≤ 1.2 W

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	Power Cable Length	**1,9 m** (6.2 ft)	
Mechanical	**Dimensions** (W × D × H)	**Unpacked w/stand** (lowest setting)	**64,1 × 24,24 × 42,04 cm** (25.24 × 9.55 × 15.55 in)
		Unpacked w/o stand (head only)	**64,1 × 6,55 × 37,92 cm** (25.24 × 2.58 × 14.93 in)
		Packaged	**73,1 × 30,5 × 49,7 cm** (28.8 × 12 × 19.6 in)
	Weight	**Head Only**	**6,4 kg** (14.1 lb)
		Unpacked	**8,8 kg** (19.4 lb)
		Packaged	**11,1 kg** (24.5 lb)
Ergonomic Features	**4-Way Comfort Adjust**	Easily adjust the display in height, tilt, swivel and pivot for maximum comfort.	
	Integrated Quick Release[7]	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	
	Height Adjustable	Yes, 0 to 120 mm	
	Pivot Rotation	Yes	
Environmental	**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% 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 Halogen[4]	Yes (except cables)	
	Mercury-Free Display Backlighting	Yes	
Environmental Data	**Eco-Label Certifications & declarations**	This product has received or is in the process of being certified to the following approvals and may be labeled with one or more of these marks:	

- IT ECO declaration
- US ENERGY STAR®
- TCO 6.0

Technical Specifications

- EPEAT® Gold registered in the United States. See http://www.epeat.net for registration status in your country

Energy Consumption (in accordance with US ENERGY STAR® test method)	115VAC, 60Hz	230VAC, 50Hz	100VAC, 60Hz
Normal Operation	67.7 W	67.7 W	67.7 W
Sleep	1.2 W	1.2 W	1.2 W
Off	0.5 W	0.5 W	0.5 W

Heat Dissipation*	115VAC, 60Hz	230VAC, 50Hz	100VAC, 60Hz
Normal Operation	232 BTU/hr	232 BTU/hr	232 BTU/hr
Sleep	4 BTU/hr	4 BTU/hr	4 BTU/hr
Off	2 BTU/hr	2 BTU/hr	2 BTU/hr

* Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour.

Additional Information

- This product is in compliance with the Restrictions of Hazardous Substances (RoHS) directive - 2002/95/EC.
- This HP product is designed to comply with the Waste Electrical and Electronic Equipment (WEEE) Directive - 2002/96/EC.
- This product is in compliance with California Proposition 65 (State of California; Safe Drinking Water and Toxic Enforcement Act of 1986).
- This product is in compliance with the IEEE 1680 (EPEAT) standard at the Gold level, see www.epeat.net
- Plastics parts weighing over 25 grams used in the product are marked per ISO 11469 and ISO1043.
- This product contains 12.4 % post-consumer recycled plastic (by wt.)
- This product is 97.6 % recycle-able when properly disposed of at end of life.

Packaging Materials

External:	PAPER/Corrugated	1068 g
Internal:	PLASTIC/EPS (Expanded Polystyrene)	104 g
	PLASTIC/Polystyrene High Impact	676 g

RoHS Compliance

Hewlett-Packard is committed to compliance with all applicable environmental laws and regulations, including the European Union Restriction of Hazardous Substances (RoHS) Directive. HP's goal is to exceed compliance obligations by meeting the requirements of the RoHS Directive on a worldwide basis. By July 1, 2006, RoHS substances will be virtually eliminated (virtually = to levels below legal limits) for all HP electronic products subject to the RoHS Directive, except where it is widely recognized that there is no technically feasible alternative (as indicated by an exemption under the EU RoHS Directive).

Material Usage

This product does not contain any of the following substances in excess of regulatory limits (refer to the HP General Specification for the Environment at:

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http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/gse.pdf):

- Asbestos
- Certain Azo Colorants
- Certain Brominated Flame Retardants - may not be used as flame retardants in plastics
- Cadmium
- Chlorinated Hydrocarbons
- Chlorinated Paraffins
- Formaldehyde
- Halogenated Diphenyl Methanes
- Lead carbonates and sulfates
- Lead and Lead compounds
- Mercuric Oxide Batteries
- Nickel - finishes must not be used on the external surface designed to be frequently handled or carried by the user.
- Ozone Depleting Substances
- Polybrominated Biphenyls (PBBs)
- Polybrominated Biphenyl Ethers (PBBEs)
- Polybrominated Biphenyl Oxides (PBBOs)
- Polychlorinated Biphenyl (PCB)
- Polychlorinated Terphenyls (PCT)
- Polyvinyl Chloride (PVC) - except for wires and cables, and certain retail packaging has been voluntarily removed from most applications.
- Radioactive Substances
- Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)

Packaging

HP follows these guidelines to decrease the environmental impact of product packaging:

- Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium in packaging materials.
- Eliminate the use of ozone-depleting substances (ODS) in packaging materials.
- Design packaging materials for ease of disassembly.
- Maximize the use of post-consumer recycled content materials in packaging materials.
- Use readily recyclable packaging materials such as paper and corrugated materials.
- Reduce size and weight of packages to improve transportation fuel efficiency.
- Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards.

End-of-life Management and Recycling

Hewlett-Packard offers end-of-life HP product return and recycling programs in many geographic areas. To recycle your product, please go to: http://www.hp.com/go/reuse-recycle or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.

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		The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: http://www.hp.com/go/recyclers. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.
	Hewlett-Packard Corporate Environmental Information	For more information about HP's commitment to the environment: Global Citizenship Report http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html Eco-label certifications http://www.hp.com/hpinfo/globalcitizenship/environment/productdesign/ecolabels.html ISO 14001 certificates: http://www.hp.com/hpinfo/globalcitizenship/environment/operations/envmanagement.html
Options For more information refer to the product's QuickSpecs.	**HP DreamColor Calibration System —B1F63AA**	The HP DreamColor Calibration Solution (DCS) is an affordable direct-connect measurement instrument for the Z27x, allowing users to quickly and accurately recalibrate their monitor. DCS kit includes calibration software for host-based calibration of the HP Z24x and other HP DreamColor displays and notebooks.
	HP LCD Speaker Bar—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 HD141 Hood Kit for Z27x —G0M47AA	The HP HD141 Hood Kit is designed to reduce the glare and color cast caused by environment lighting. Recommended for color-critical users who work in areas where the lighting cannot be controlled.
	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—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.
What's in the box?	**Monitor and Accessories**	HP DreamColor Z27x Professional Display, AC power cord, USB cable, DisplayPort cable, HDMI cable, DisplayPort mini cable, Audio cable
	Documentation	DVD documentation kit, factory calibration report
Other	**User Guide Languages**	English, Arabic, Bahasa Indonesia, S. Chinese, T. Chinese, Czech, Danish, Dutch, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Kazakh, Korean, Norwegian, Polish, B. Portuguese, Russian, Slovenian, Spanish, Swedish and Turkish.
	Warranty Languages	English, Arabic, Bahasa Indonesia, S. Chinese, T. Chinese, Czech, Danish, Dutch, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Kazakh, Korean, Norwegian, Polish, B. Portuguese, Russian, Slovenian, Spanish, Swedish and Turkish.

Technical Specifications

Color	Black
VESA External Mounting	Yes (one set of standard 4-hole pattern, 100 mm). Use of the top VESA 4-hole pattern will allow the user to set monitor head lower to the desk surface.
Security Lock-Ready	Yes
Country of Origin	China
Certification and Compliance	TCO Certified, CEL Grade 2, Microsoft WHQL Certification (Windows 8 and Windows 7), ENERGY STAR® Qualified, EPEAT® Gold[5]. CE, CB ,KC, KCC, NOM, PSB, ICE, TUV-S, CCC, CEL, SEPA, EPA, ISC, VCCI, FCC. Taiwan: BSMI
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]

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1. ENERGY STAR® power is measured with factory defaults, brightness at ENERGY STAR® level of 200 cd/m^2 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 www.hp.com/go/cpc for details.
7. 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.

Technical Specifications

Change Log

April 11, 2014 - From Version Feb. 24 to April 11	
	Added
	Adding additional model numbers and environmental data.