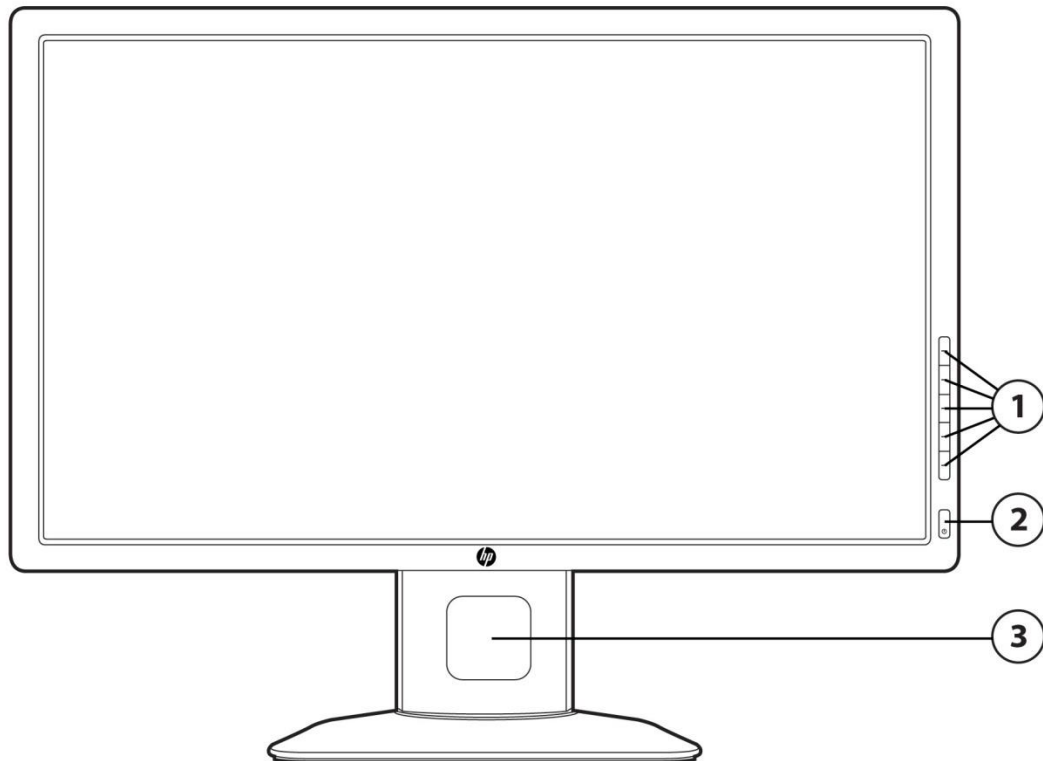


Overview

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 technology 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 *	7ms w/overdrive (gray to gray, typical)
	Pixel Pitch	0.2331 mm
	Backlight Lamp Life (to half brightness)	50,000 hours minimum
	Color Production	True 10-bit (Up to 1.07 billion colors)
	Color Gamuts (Calibrated)	100% of sRGB, 100% of BT.709, 100% of AdobeRGB, 99% of DCI-P3, 68% of BT.2020 (CIE 1976)
	* 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	Color Management Engine	1D LUT→ 3×3 matrix →1D LUT, 14-bit precision. Up to 12-bit per channel input, 10-bit output that produces 1,024 gray levels per channel and up to 1.07 billion on-screen colors.
	Factory Calibrated Presets	sRGB D65, sRGB D50, AdobeRGB, BT.709, BT.2020, DCI-P3 and Native
	User Calibration	Integrated calibration engine for hostless calibration with the HP DreamColor Calibration Solution ⁸ , Klein Instruments K10-A, Photo Research spectroradiometers ⁹ , Konica Minolta CA-310, calibration with on-screen menus or XML scripting, and upload and download LUTs

Technical Specifications

	Remote Display Control and Management	Linux , Microsoft Windows, and Apple OS X SDK/API, web control interface, and WS-Management support
	4K input support	3840×2160 or 4096×2160, can be displayed scale to fit or pixel-for-pixel with dynamic scroll
	DreamColor Ports	Two HP DreamColor USB ports allow connection of measurement instruments for calibration and flash drive for customized calibration or firmware updates.
Signal Interface/ Performance	Horizontal Frequency	24–113 kHz
	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
	Color Space Support	RGB 4:4:4, YC _B C _R 4:2:2, YC _B C _R 4:4:4 (color managed)
	Anti-Glare	Yes
	Factory Calibrated Color Temperatures	D65, D50, and 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	(2) DisplayPort 1.2, (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);

Technical Specifications

	USB Cable Included	(1) USB 3.0 1,8 m (5.9 ft)	
	Audio	(1) Analog stereo audio out, (1) Digital/SPDIF stereo audio out	
Power	Power Supply	Internal	
	Input Power	90–265 VAC at 45–63 Hz	
	ENERGY STAR® Power¹	54.1 W	
	Default Power²	65 W	
	Maximum Power³	< 110 W	
	Sleep Power	≤ 1.2 W	
	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 Release⁷	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)	

Technical Specifications

	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 Backlighting	Yes
Options	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,
	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.
	Color	Black

Technical Specifications

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/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 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.
8. HP DreamColor Calibration Solution can be purchased as an option
9. For supported Photo Research spectroradiometers, see the HP DreamColor Z27x User Guide