



HP DreamColor Z31x Studio Display

A visionary display

Designed for the world's elite color professionals, the award-winning HP DreamColor Technology brings the industry's boldest visions to life. Captivate with Cinema 4K resolution, an expansive color gamut for remarkably vivid colors, integrated colorimeter and custom-tailored management tools.



And the award goes to...

- The display that walked the red carpet. The HP DreamColor Technology won the 2015 Scientific and Engineering Award from the Academy of Motion Picture Arts and Sciences.¹ Experience theater-quality color from HP's most precise display yet.

More time creating. Less time calibrating.

- Maintain accurate color with a pop-up sensor that calibrates on demand or on a regular schedule. No longer wonder if your color is correct—it just is.

Designed by pros. For pros.

- HP worked with leading visual effects and animation studios to create customized solutions for the optimal design process. Speed projects to completion with True 2K, onscreen markers and keyboard-based input switching between your devices.

Featuring

- The built-in KVM switch lets you easily alternate between apps on different computers using a lightning-quick keyboard shortcut. Done and done.
- Enjoy stunning full-screen content without any scaling artifacts by enabling the True 2K viewing mode when you work in Full HD or 2K.
- Overlay standard video & film markers and DCI aspect ratio masks over the image to assess framing and protect regions. Even create your own custom markers using StudioCal XML.
- Connect to a single display or manage an entire fleet remotely. Built-in tools let you modify settings, pull calibration histories or push out new configurations. Remotely.
- Native Cinema 4K resolution and a 17:9 aspect ratio provide loads of space for bringing your ideas to life, and let you see every pixel of your images without scaling or cropping.
- Our broadest spectrum ever: 99% DCI P3 coverage, a 1500:1 contrast ratio for inky blacks and rich shadow detail, superb Real IPS off-axis performance, and the most vividly accurate color imaginable.
- Work interruption-free by scheduling a fully automated color calibration for off hours. Align the built-in colorimeter with an in-house reference instrument for studio-wide color stability.
- Choose from eight factory-calibrated typical color presets—or, completely change them up and make them your own using standard targets or StudioCal XML.

HP DreamColor Z31x Studio Display Specifications Table



Display type	IPS w/LED backlight
Brightness	250 cd/m ² ^{1,3}
Contrast ratio	1500:1 static ¹
Response Ratio	20 ms on/off ¹
Product colour	Black
Aspect ratio	17:9
Native resolution	4K Cinema (4096 x 2160)
Resolutions supported	4096 x 2160; 3840 x 2160; 2048 x 2160; 2560 x 1440; 2048 x 1080; 1920 x 1080; 1366 x 768; 1280 x 1024; 1280 x 720; 1024 x 768; 800 x 600; 720 x 400; 640 x 480
Display features	Anti-glare; BrightView Panel; In plane switching; Language selection; LED Backlights; On-screen controls; Plug and Play; User programmable; Anti-static
User controls	Color Control; Image Control; Information; Language; Management; Menu; PIP Control; Video Control
Input signal	2 DisplayPort™ 1.2; 2 HDMI 2.0 with HDCP support
Display size (diagonal)	79 cm (31.1")
Display size (diagonal, metric)	79 cm (31.1")
Ports and Connectors	1 USB 3.0 Type-B (upstream); 1 USB Type-C™ (DisplayPort™ 1.2, power delivery up to 60 W); 4 USB 3.0 (downstream, two side and two rear) ¹
Camera	No integrated camera
Environmental	Operating temperature: 5 to 35°C; Operating humidity: 20 to 80% RH;
Power	Input voltage: 100 to 240 VAC
Power consumption	260 W (maximum), 120 W (typical), 0.5 W (standby)
Dimensions	73.80 x 8.26 x 41.41 cm (Without stand)
Weight	15 kg (With stand)
Physical security features	Security lock-ready (lock is sold separately)
Certification and compliance	BSMI; CB; CCC; CE; CSA; E-standby; EUP Lot-5; EUP Lot-6; FCC; ICES; ISO 9241-307; KC; KCC; Microsoft WHQL Certification (Windows 10); TUV/Ergo; VCCI
Sustainable impact specifications	Arsenic-free display glass; Mercury-free display backlights
What's in the box	AC power cable; CD with User Guide, warranty, drivers; DisplayPort™ 1.2 cable; HDMI cable; Monitor; USB cable (Type A male to Type B male); USB Type-C™ cable; USB Type-C™ to A cable
Warranty	5 years Next Business Day Onsite Support. HP support includes HP 3-year limited warranty plus a 5-year HP Onsite Care Pack support, as of date of purchase of the hardware product. Onsite support is offered if the problem cannot be handled over the phone. Delivery of support services outside of the applicable HP coverage areas may be subject to longer response times.
Pixels per inch (ppi)	149 ppi
Panel bit depth	10 bit
Vertical viewing angle	178°
Horizontal viewing angle	178° horizontal; 178° vertical
Swivel	±45°
Tilt	Tilt: -5 to +30°; Swivel: ±45°; Height: 117 mm
Pivot	No pivot
Height adjustment range	100 mm
VESA mounting	100 mm x 100 mm (bracket included)
Screen treatment	Anti-glare
Touch-enabled	Not touch-enabled
Flicker-free	Yes
Energy efficiency class	G
Display scan frequency (horizontal)	30-135 KHz
Display scan frequency (vertical)	24-60 Hz
Pixel pitch	0.17 mm

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Accessories and services (not included)

HP B500 PC Mounting Bracket



Customize an altogether better solution with the HP B500 PC Mounting Bracket, which lets you attach your HP Workstation, HP Desktop Mini, HP Chromebox or select HP Thin Client directly behind select 2017 and 2018 HP Z Displays.¹
Product number: 2DW52AA

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Messaging Footnotes

¹ The 2015 Scientific and Engineering Award from the Academy of Motion Picture Arts and Sciences went to John Frederick, Bob Myers, Karle Rasche and Tom Lianza for the development of the HP DreamColor LP2480zx Professional Display. This cost-effective display offered a stable, wide color gamut, allowing facility-wide adoption in feature animation and visual effects studios.

Technical Specifications Footnotes

¹ All specifications represent the typical specifications provided by HP's component manufacturers, actual performance may vary either higher or lower.

³ HP applied uniformity compensation to each Z31x display, which brings the typical uniform peak luminance down to 250 cd/m² from a 350 cd/m² native peak brightness. Display supports luminance calibration up to 250 cd/m², reserving any luminance headroom for panel aging compensation.

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4AA7-2076, March 2021

