

# BenQ SW320 Reviewer's Guide

Relive Vibrant Moments in Living Color



## BenQ SW320 Monitor Key Features

- 31.5 inches, 16:9, 3840 x 2160, true 10-bit IPS technology panel
- 99% Adobe RGB coverage
- Color accuracy with 14-bit 3D LUT,  $\Delta E \leq 2$
- Palette Master Element Calibration Software with Hardware Calibration
- High Dynamic Range (HDR) content support ready
- Brightness Uniformity Function
- GamutDuo function to support dual color space on one screen
- Advanced Black & White mode
- Technicolor Color Certified\*



### \*About Technicolor® Color Certified

Technicolor® Color Certified is a designation reserved for devices — PC monitors, laptops, all-in-ones, and tablets — that satisfy the required Technicolor specifications during the device's manufacturing process to meet the same strict standards for color accuracy used in Hollywood and throughout the media and entertainment industries. All Technicolor Color Certified devices display colors accurately, consistently and exactly as the content originators intended. Anyone can enjoy shopping, entertainment and gaming experiences with full confidence that the color you see onscreen is accurate.



## Design Concept

The SW320 builds upon the success of its award-winning predecessor and sets a new benchmark for wide gamut monitors taking image quality to the next level with the addition of HDR capabilities. The new 31.5" 4K UHD monitor offers extraordinary clarity of fine details and textures on a true 10-bit panel with 99% Adobe RGB, 100% sRGB color space coverage as well as supporting HDR content.

Besides improvements in monitor size, resolution and image quality, BenQ Team sought out to further improve the quality of color reproduction on screens. Knowing that ambient lighting can obstruct color accuracy, all SW series photographer monitors include a detachable shading hood to reduce screen glare to deliver the most accurate colors possible. The newly-designed shading hood included with SW320 can be used in portrait orientation as well as in landscape orientation.

BenQ Team knows that a small detail can make a big difference. We've noticed that the color of the bezel can affect the photographer's viewing experience. BenQ Team experimented with various colors to find the one that minimizes bezel reflection. After extensive research, the bezels on the SW320 monitor implement the best color ensuring the most optimal viewing experience for photography professionals.

In addition to coating changes, the monitor's stand was refashioned in a minimalist style, with a sleek L-shaped neck that streamlines with the monitor frame.



## Product Features

<b>Wide Color Gamut</b>	<b>99% Adobe RGB color space</b> offers an impressive range of vibrant colors, particularly in reproducing shades of blue and green that are true to color.
<b>10-bit Color Depth</b>	<b>True 10-bit</b> panels ensure smoother color gradients than typical 8-bit panels.
<b>High Resolution</b>	<b>4K ultra HD resolution</b> offers extraordinary clarity of fine details and textures for an optimal viewing and visual-intensive work experience.
<b>Panel Type</b>	<b>IPS</b> technology enables wide viewing angles (178°/ 178°).
<b>Color Accuracy</b>	The <b>14-bit 3D Look Up Table (LUT)</b> attains a color difference of <b>Delta E<sub>s2</sub></b> in both Adobe RGB and sRGB color spaces and improves RGB color blending and accuracy, resulting in impeccable color and gray tone reproduction.
<b>Hardware (HW) Calibration</b>	Calibrate the monitor with a colorimeter, allowing you access to the internal image processing chip through BenQ's <b>Palette Master Element</b> . Calibration is done on the internal image processing chip without affecting the graphics card.
<b>HDR Mode</b>	<b>High Dynamic Range (HDR)</b> increases the overall dynamic range between black and white so the resulting image appears closer to what your eyes see in the natural world. SW320 can support the HDR signal from both HDMI and DisplayPort input. (*We recommend Samsung Blu-ray player UBD K8500 & TV box Zidoo X9s to view the HDR content. Check out some HDR demo video clips below: <a href="http://goo.gl/aKnD98">http://goo.gl/aKnD98</a> )
<b>Brightness Uniformity Function</b>	<b>Brightness uniformity</b> is achieved via delicate process involving the utilization of high precision apparatus to meticulously fine-tune hundreds of sub-regions on the entire screen. It offers a more authentic and consistent viewing experience.

## Product Features (continued)

- Hotkey Puck** The Hotkey Puck is a remote controller that allows for **quick color mode switching**. The three preset buttons can be customized to map other modes or settings.
- GamutDuo** Switch to PIP/PBP mode for multitasking in GamutDuo viewing. This mode enables you to **simultaneously display content side-by-side** in two different color spaces, such as AdobeRGB and sRGB. (Watch how to set GamutDuo on YouTube:  
<https://www.youtube.com/watch?v=bszToQ3-rF8>)
- Shading Hood** The SW320 includes a detachable shading hood that effectively reduces the monitor's screen glare resulting from ambient lighting, ensuring superb color accuracy required for professional work. The shading hood can be **used in both portrait and landscape orientations**. (Watch how to set the shading hood on YouTube  
<https://www.youtube.com/watch?v=vHpKRB4Okro>)
- Advanced Black & White Mode** This mode enables you to **view your photos in a black and white film effect**. Choose from three different black and white presets to preview your photos in before you perform actual adjustments in your photo processing program.
- Mac Thunderbolt Compatibility** Mini DP is **compatible with Mac system's Thunderbolt port** to transmit video signal. Using the Mini DisplayPort to DisplayPort cable included in the box, Mac users can connect the SW320 display to the Mac laptop.

## Technical Specifications

<b>Connectors and Cable</b>	
I/O	DP 1.4 / mDP 1.4 / HDMI 2.0a / Headphone jack
Side	USB 3.0 x 2 (1 upstream), SD card reader
Accessory	<ul style="list-style-type: none"><li>- Power cord (1.8M)</li><li>- HDMI 2.0a cable (1.8M)</li><li>- Mini DP to DP cable (1.8M)</li></ul> (*Mini DP is compatible with Mac system's Thunderbolt port to transmit video signal) <ul style="list-style-type: none"><li>- USB 3.0 cable (1.8M)</li><li>- Shading Hood</li><li>- Hotkey Puck</li></ul>
<b>Ergonomic</b>	
Height adj.	150 mm
Tilt	-5° ~ +20°
Swivel	90° ( 45° left and right)
Pivot	90°

## About BenQ

Founded on the corporate vision of “Bringing Enjoyment ‘N’ Quality to Life”, BenQ Corporation is a world-leading human technology and solutions provider aiming to elevate and enrich every aspect of consumers’ lives. To realize this vision, the company focuses on the aspects that matter most to people today – lifestyle, business, healthcare and education – with the hope of providing people with the means to live better, increase efficiency, feel healthier and enhance learning. Such means include a delightful broad portfolio of people-driven products and embedded technologies spanning digital projectors, monitors, interactive large-format displays, digital cameras and camcorders, mobile computing devices, and lighting solutions. Because it matters.

