

# CHRISTIE SAPPHIRE 4K40-RGBH

Large venues | Live events & performing arts | Projection mapping | Rental & staging | Theme parks & attractions | Visualization

Experience the brilliance of hybrid illumination with vibrant DCI-P3 color and stunning native 4K clarity in both 2D and 3D.

## Hybrid brilliance

As the world's first high-brightness hybrid RGB pure laser and laser phosphor projector, Christie Sapphire® 4K40-RGBH is engineered for any 2D application, all active and passive 3D formats, and any screen type.

## A new standard in 3D projection

Sapphire 4K40-RGBH boasts an exclusive Infitec® color comb 3D option for dark rides, other media-based attractions, and visualization powerwalls. It outshines traditional laser phosphor and lamp-based projectors, offering a brighter, richer, more immersive, and lifelike 3D experience.

## Key features

- › **All-screen compatible**, enabling optimal viewing for standard gain screens, silver screen 3D, and rear-screen projection surfaces in both 2D and passive and active 3D.
- › **TruLife+™ “all-in” electronics** with every connection you need built-in, including quad 12G-SDI with full-size BNC's, four DisplayPort connections, three HDMI connections, and more.
- › **Compatible with all Christie 4K 3DLP ILS4 lenses.**
- › **Optional Infitec color comb 3D solution, as well as polarization and active 3D capabilities.** Sapphire delivers better light efficiency and a broader color gamut—perceived as DCI-P3.



**CHRISTIE®**

## Technical specifications

## Christie Sapphire 4K40-RGBH

|                            |   |   |
|----------------------------|---|---|
| Image                      | brightness                                | • 36,400 lumens <sup>1,2,3,4</sup>  |
|                            | contrast                                  | • 2000:1 On/Off<br>• 4500:1 On/Off <sup>2</sup> with high-contrast lens   |
| Display technology         | type                                      | • Dust-sealed 3DLP (1.38")  |
|                            | resolution                                | • 4096 x 2160 native 4K resolution  |
| Illumination               | type                                      | • Unique hybrid illumination: Solid-state RGB (red, green & blue) pure laser combined with dual laser phosphor system   |
|                            | performance                               | • RGB laser light source: 25,000 hours to 50% brightness when operated at 100% brightness <sup>5</sup><br>• Laser phosphor light source: 20,000 hours to 50% brightness when operated at 100% brightness  |
|                            | color performance                         | • Nominally DCI P3. DCI P3+ capable   |
|                            | field replaceable                         | • Yes   |
| Orientation                |   | • Omnidirectional   |
| Image processing           |   | • Christie TruLife+™ electronics, 1.2Gpx/s  |
| Frame rates                | standard                                  | • 24-60 Hz 4K (4096x2160) and/or 4K UHD (3840x2160)   |
| Passive 3D                 | optional - high frame rates and active 3D | • Christie® Mirage option: 2D up to 120 Hz 4K and 4K 3D up to 120 Hz (48-60 Hz per eye) with third-party active glasses and standard screens<br>• Christie Mirage Pro option: All features of Mirage, plus 2K at 240-480 Hz or 2K 3D at 120-240 Hz per eye (scales to fill the chip), and Christie View simultaneous multi-content viewer at 240Hz at 2K via four feeds of 24-60 Hz |
|                            | optional - color comb 3D                  | • All-new color comb 3D solution: with IFH (Intelligent Filter Holder), Sapphire 3D filters and Infitec 3D glasses to enable dual-projector passive 3D on any projection surface (Mirage and Mirage Pro upgrade optional)   |
| Inputs                     | optional - polarized 3D                   | • Single-projector 3D: with Mirage or Mirage Pro and third-party active-to-passive filter and glasses (circular or linear) (requires a screen that preserves polarized light)<br>• Dual-projector 3D: with third-party external passive polarization filters (circular or linear) and a screen that preserves polarized light (Mirage and Mirage Pro upgrade optional)              |
|                            | standard                                  | • 2 x HDMI 2.1<br>• 1 x HDMI 2.0<br>• 2 x DisplayPort 1.4<br>• 2 x DisplayPort 1.2<br>• 4 x 12G-SDI (full-size BNC)<br>• SDVoE (Christie Terra®)<br>• Christie Link 1 input/1 output (2x Fiber/QSFP+)   |
| Warping and blending       | standard                                  | • Christie Twist™<br>• Christie Mystique™ Lite can be downloaded at no extra cost   |
|                            | optional                                  | • Twist Premium and Twist Pro<br>• Mystique - Essentials, Pro Venue, Premium & Large Scale Experience Editions  |
| Multi-projector management | optional                                  | • Christie Conductor monitors/controls up to 256 projectors on a single network and can be downloaded at no extra charge  |
| Lenses                     | high brightness                           | • 0.38:1 UST high brightness (ILS4) <sup>2</sup><br>• 0.72:1 high brightness (ILS4)<br>• 0.9:1 high brightness (ILS4)<br>• 1.13-1.66:1 high brightness (ILS4)<br>• 1.45-2.17:1 high brightness (ILS4)<br>• 1.95-3.26:1 high brightness (ILS4)<br>• 2.71-3.89:1 high brightness (ILS4)<br>• 3.89-5.43:1 high brightness (ILS4)<br>• 4.98-7.69:1 high brightness (ILS4) <sup>6</sup>  |
|                            | ultra high contrast <sup>3</sup>          | • 0.72:1 high brightness (ILS4)<br>• 0.9:1 high brightness (ILS4)<br>• 1.13-1.66:1 high brightness (ILS4)<br>• 1.45-2.17:1 high brightness (ILS4)<br>• 1.95-3.26:1 high brightness (ILS4)<br>• 2.71-3.89:1 high brightness (ILS4)<br>• 3.89-5.43:1 high brightness (ILS4)   |
| Power                      | line voltage                              | • 200-240 VAC, 19 A, 50/60 Hz single phase<br>• 100-120 VAC, 15 A, 50/60 Hz single phase (50% brightness maximum)<br>• Connector: IEC60309 30 A<br>• Optional hard-wired cable connection kit is available (to be installed by a qualified electrician)   |
|                            | power consumption                         | • 3,800W typical (13,000 BTU/hr)<br>• 4,560W max (15,600 BTU/hr)  |
| Cooling                    |   | • Liquid, self-contained  |
| Laser class                |   | • Class 1, Risk Group 3<br>• Meets Class 1, Risk Group 2 with the following lenses installed: 0.38:1, 0.72:1, 0.9:1   |
| Operating environment      |   | • 5-40 C (41-104 F)<br>• Relative humidity: 10-80% non-condensing   |
| Dimensions (without lens)  | size                                      | • (LxWxH): 36.3 x 25 x 15" (922 x 635 x 380mm)  |
|                            | weight                                    | • 202.8lbs (92kg)   |
| Warranty                   |   | • Three years parts and labor<br>• Reference the Christie Standard Limited Warranty document for details or contact an authorized Christie representative for full details of our limited warranty  |

<sup>1</sup> D65 white measured at 23 C (73.4 F)

<sup>2</sup> Brightness is reduced up to 30% with the use of the UST lens. Focus drift will occur with this lens when switching between prolonged periods of light and dark content

<sup>3</sup> Brightness is reduced up to 30% with the use of a high contrast lens

<sup>4</sup> In ambient temperatures up to 30 C

<sup>5</sup> Based on 9-point average (results may vary depending on environmental conditions i.e., ambient temperature, humidity, dust, smog, or other contaminants.)

<sup>6</sup> Requires lens hood extension for Class 1, Risk Group 3. Lens hood not required if optional Infitec filter is installed

For the most current specification information, please visit [christiedigital.com](http://christiedigital.com)

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