

# CHRISTIE GRIFFYN 4K50-RGB

Large venues | Live events & performing arts | Planetariums & museums |  
Projection mapping | Rental & staging | Sports venues | Theme parks & attractions

Pure laser. Pure color. Pure excellence.  
Raising the bar in projection performance.

## A technological marvel

The Christie Griffyn® 4K50-RGB pure laser projector combines superior Christie® electronics, our proprietary RGB laser illumination architecture with integrated cooling, and a sealed optical path for reliable performance and capabilities that will impress you.

Ready to illuminate any surface with 50,000 lumens while operating at 54dBA at full brightness, this powerful projector is designed for demanding large-scale applications on the ground or in the air.

Griffyn 4K50-RGB uses our TruLife+™ electronics platform with all-in connectivity, eliminating the hassle of removable option cards because every connection you need is built in. It also includes our electronic color convergence, which allows you to adjust convergence via remote control for easy, picture-perfect color alignment.

## Key features

- › **Enjoy simplified installation and maintenance:** The smallest, lightest laser projector available in its class, Griffyn 4K50-RGB has a compact 197lb chassis, and features omnidirectional operation and a field-replaceable light source.
- › **Experience rich, vibrant, and true-to-life visuals** with Griffyn 4K50-RGB's expanded color gamut — ~98% of the Rec. 2020 color space.
- › **Maintain color balance and brightness over time,** regardless of fluctuations in ambient temperature, with Christie LiteLOC™.
- › **Expertly warp and blend multi-projector arrays** with built-in Christie Twist™. Save even more time with optional Christie Mystique™ automated camera-based alignment software.
- › **Take advantage of the convenience and cost savings** of Griffyn 4K50-RGB's compatibility with all Christie 3DLP ILS4 native 4K lenses.



**CHRISTIE®**

## Technical specifications

## Christie Griffyn 4K50-RGB

|                            |                                  |  |  |
|----------------------------|----------------------------------|--|--|
| Image                      | brightness                       | <ul style="list-style-type: none"> <li>• 50,000 ISO lumens</li> <li>• 44,500 ANSI lumens <sup>1,2,3,4</sup></li> </ul>   |  |
|                            | contrast                         | <ul style="list-style-type: none"> <li>• 2000:1 On/Off</li> <li>• 5000:1 On/Off with high-contrast lens</li> </ul>   |  |
| Display technology         | type                             | • Dust-sealed 3DLP (1.38")   |  |
|                            | resolution                       | • 4096 x 2160 (4K)   |  |
| Sound                      |                                  | • 54dBA <sup>5,7</sup>   |  |
| Illumination               | type                             | • Solid-state RGB (red, green & blue) pure laser   |  |
|                            | performance                      | <ul style="list-style-type: none"> <li>• 25,000 hours to 50% brightness when operated at 100% brightness <sup>6</sup></li> <li>• 50,000 hours to 50% brightness when operated at 60% brightness <sup>6</sup></li> </ul>  |  |
|                            | color performance                | • ~98% coverage of Rec. 2020   |  |
|                            | field replaceable                | • Yes  |  |
| Orientation                |                                  | • Omnidirectional  |  |
| Image processing           |                                  | • Christie TruLife+™ electronics, 1.2Gpx/s   |  |
| Frame rates                | standard                         | • 24-60 Hz   |  |
|                            | optional                         | <ul style="list-style-type: none"> <li>• Christie® Mirage option: 96-120 Hz 4K in 2D or 4K 3D at 48-60 Hz per eye</li> <li>• Christie Mirage Pro option: Mirage plus 2K at 240-480 Hz or 2K 3D at 120-240 Hz per eye, and Christie View simultaneous multi-content viewer at 240 Hz at 2K via four feeds of 60 Hz. Scales to fill the chip.</li> </ul> |  |
| Inputs                     | standard                         | <ul style="list-style-type: none"> <li>• HDMI 2.1</li> <li>• 2 x HDMI 2.0</li> <li>• 4 x Micro BNC (12G-SDI)</li> <li>• 2 x DisplayPort 1.4</li> <li>• 2 x DisplayPort 1.2</li> <li>• Fiber (QSFP+) for use with Christie Link Transmitter (1 input/1 output)</li> <li>• SDVoE (Christie Terra®)</li> <li>• 3D Sync (1 input/1 output)</li> </ul>      |  |
| Control                    |                                  | <ul style="list-style-type: none"> <li>• Ethernet - Control and Web UI</li> <li>• RS232 (Serial)</li> <li>• GPIO</li> <li>• Wired keypad</li> </ul>  |  |
| Warping and blending       | standard                         | <ul style="list-style-type: none"> <li>• Christie Twist™</li> <li>• Christie Mystique™ Lite can be downloaded at no extra charge</li> </ul>  |  |
|                            | optional                         | <ul style="list-style-type: none"> <li>• Twist Premium and Twist Pro</li> <li>• Mystique - Essentials, Pro Venue, Premium &amp; Large Scale Experience Editions</li> </ul>   |  |
| 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                  | <ul style="list-style-type: none"> <li>• 0.38:1 UST high brightness (ILS4)<sup>2</sup></li> <li>• 0.72:1 high brightness (ILS4)</li> <li>• 0.9:1 high brightness (ILS4)</li> <li>• 1.13-1.66:1 high brightness (ILS4)</li> <li>• 1.45-2.17:1 high brightness (ILS4)</li> </ul>   | <ul style="list-style-type: none"> <li>• 1.95-3.26:1 high brightness (ILS4)<sup>8</sup></li> <li>• 2.71-3.89:1 high brightness (ILS4)<sup>8</sup></li> <li>• 3.89-5.43:1 high brightness (ILS4)<sup>8</sup></li> <li>• 4.98-7.69:1 high brightness (ILS4)<sup>8</sup></li> </ul> |
|                            | ultra high contrast <sup>3</sup> | <ul style="list-style-type: none"> <li>• 0.72:1 ultra high contrast (ILS4)</li> <li>• 0.9:1 ultra high contrast (ILS4)</li> <li>• 1.13-1.66:1 ultra high contrast (ILS4)</li> <li>• 1.45-2.17:1 ultra high contrast (ILS4)</li> </ul>  | <ul style="list-style-type: none"> <li>• 1.95-3.26:1 ultra high contrast (ILS4)<sup>8</sup></li> <li>• 2.71-3.89:1 ultra high contrast (ILS4)<sup>8</sup></li> <li>• 3.89-5.43:1 ultra high contrast (ILS4)<sup>8</sup></li> </ul>   |
| Power                      | line voltage                     | <ul style="list-style-type: none"> <li>• 200-240 VAC, 19 A, 50/60 Hz Single phase</li> <li>• Connector: IEC60309 30 A</li> </ul>   |  |
|                            | power consumption                | <ul style="list-style-type: none"> <li>• 2,800W typical (9,550 BTU/hr)</li> <li>• 3,800W max (13,000 BTU/hr)</li> </ul>  |  |
| Cooling                    |                                  | • Liquid, self-contained   |  |
| Laser class                |                                  | • Class 1, Risk Group 3  |  |
| Operating environment      |                                  | <ul style="list-style-type: none"> <li>• 5-40 C (41-104 F)</li> <li>• Relative humidity: 10-80% non-condensing</li> </ul>  |  |
| Dimensions (without lens)  | size (LxWxH)                     | • 36.3 x 25 x 15" (922 x 635 x 380mm)  |  |
|                            | shipping size (LxWxH)            | • 47 x 33 x 30" (1194 x 838 x 762mm)   |  |
|                            | weight                           | • 197lbs (89.3kg)  |  |
|                            | shipping weight                  | • 261lbs (118.39kg)  |  |
| Warranty                   |                                  | <ul style="list-style-type: none"> <li>• Three years parts and labor</li> <li>• Reference the Christie Standard Limited Warranty document for details or contact an authorized Christie representative for full details of our limited warranty</li> </ul>   |  |

<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> 44dBA in quiet fan mode at 23 C, 55dBA in standard fan mode at 23 C

<sup>6</sup> To 50% brightness. Based on 9-point average (results may vary depending on environmental conditions i.e., ambient temperature, humidity, dust, smog, or other contaminants.)

<sup>7</sup> Sound pressure measurement, measuring conditions, and method of notation all comply with ISO7779-1999. Sound level may vary between units

<sup>8</sup> Requires lens hood extension for Class 1, Risk Group 3

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

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