# 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 is built for demanding large-scale applications. It combines Christie TruLife+™ electronics, a solid-state RGB pure laser illumination system, and a sealed optical engine for stable operation, long service life, and energy-efficient performance.

Griffyn 4K50-RGB delivers premium color reproduction with support for Rec. 709, P3, and up to 98% of the Rec. 2020 color space, enabling rich, vibrant, high-fidelity visuals.

With integrated, all-in connectivity, every input you need is built in. No option cards. No add-ons. Just a streamlined setup and dependable signal management.

Designed to illuminate any surface with 50,000 lumens, the powerful Griffyn 4K50-RGB is ready to deliver high-impact visual experiences backed by proven operational reliability.

### Key features

› **Enjoy simplified installation and serviceability:** The smallest, lightest laser projector available in its class, Griffyn 4K50-RGB has a compact chassis and features omnidirectional operation and a field-replaceable light source.

› **Easily maintain picture-perfect color alignment:** Converge colors mechanically or use electronic color convergence via remote control, offering flexibility for a wide range of applications.

› **Preserve 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

| Category | Subcategory | Specification |
|---|---|---|
| Image | brightness [1,2,3,4] | • 50,000 ISO lumens<br>• 44,500 ANSI lumens |
| | contrast | • 2,000:1 On/Off<br>• 5,000:1 On/Off with high-contrast lens [3] |
| | Christie RealBlack™ | • Reduces light output to zero (true black) whenever the projector detects full black frames in the video source content. |
| Display technology | type | • Dust-sealed 3DLP (1.38") |
| | resolution | • 4096 x 2160 (4K) |
| Sound | | • 55 dBA[5,7] |
| Illumination | type | • Solid-state RGB (red, green & blue) pure laser |
| | performance | • 25,000 hours to 50% brightness when operated at 100% brightness [6]<br>• 50,000 hours to 50% brightness when operated at 60% brightness [6] |
| | color performance | • Rec. 709, P3, and ~98% coverage of Rec. 2020 |
| | field replaceable | • Yes |
| Orientation | | • Omnidirectional |
| Image processing | | • Christie TruLife+™ electronics, 1.2 Gpx/s |
| Frame rates | standard | • 24–60 Hz |
| | optional | • Christie® Mirage option: 96–120 Hz 4K in 2D or 4K 3D at 48–60 Hz per eye<br>• 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. |
| Inputs | standard | • 1 x HDMI 2.1<br>• 2 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<br>• Christie Link 1 input/1 output (2x Fiber/QSFP+)<br>• 3D Sync (1 input/1 output) |
| Control | | • Ethernet - Control and Web UI<br>• RS232 (Serial)<br>• GPIO<br>• Wired keypad |
| Warping and blending | standard | • Christie Twist™<br>• Christie Mystique™ Lite (complimentary software download) |
| | 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 (complimentary software download) |
| Lenses | high brightness | • 0.38:1 UST high brightness (ILS4)[2]<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)[8]<br>• 2.71-3.89:1 high brightness (ILS4)[8]<br>• 3.89-5.43:1 high brightness (ILS4)[8]<br>• 4.98-7.69:1 high brightness (ILS4)[8] |
| | ultra high contrast [3] | • 0.9:1 ultra high contrast (ILS4)<br>• 1.13-1.66:1 ultra high contrast (ILS4)<br>• 1.45-2.17:1 ultra high contrast (ILS4)<br>• 1.95-3.26:1 ultra high contrast (ILS4)[8]<br>• 2.71-3.89:1 ultra high contrast (ILS4)[8]<br>• 3.89-5.43:1 ultra high contrast (ILS4)[8] |
| Accessories | Optional | • Christie Link transmitter (144-117100-XX)<br>• Rigging frame (163-198109-XX)<br>• Short rigging handles (163-162100-XX)<br>• Long rigging handles (163-125109-XX)<br>• Harsh environment bottom kit (163-196107-XX)<br>• Harsh air filter - bottom (003-007694-XX)<br>• Harsh environment side kit (163-195106-XX)<br>• Harsh air filter - side (003-007718-XX) |
| Power | line voltage | • 200–240 VAC, 19 A, 50/60 Hz Single phase<br>• Connector: IEC60309 30 A |
| | power consumption | • 2,800W typical (9,550 BTU/hr)<br>• 3,800W max (13,000 BTU/hr) |
| Cooling | | • Liquid, self-contained |
| Laser class | | • Class 1, Risk Group 3 |
| Operating environment | | • 5–40 C (41-104 F)<br>• Relative humidity: 10-80% non-condensing |
| Dimensions (without lens) | size (LxWxH)<br>shipping size (LxWxH) | • 36.3 x 25 x 15" (922 x 635 x 380 mm)<br>• 47 x 33 x 30" (1194 x 838 x 762 mm) |
| | weight<br>shipping weight | • 197 lbs (89.3 kg)<br>• 261 lbs (118.39 kg) |
| TAA-compliant | | • Optional |
| Regulatory | | • This product conforms to all relevant European directives, standards, safety, health, and environmental concerns<br>• Directives: RoHS · REACH · WEEE · Contact Christie for timing of certifications: UL/CSA/IEC 62368-1<br>• FCC Class A · UL · CE · FDA · CCC · KC · PSE · VCCI · RCM · Mexico · BSMI |
| 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 |

[1] Brightness level is +/- 10%. D65 white measured at 23 C (73.4 F)

[2] 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.

[3] Brightness is reduced up to 30% with the use of a high contrast lens

[4] In ambient temperatures up to 30 C

[5] 44 dBA in quiet fan mode at 23 C, 55 dBA in standard fan mode at 23 C

[6] 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.)

[7] Sound pressure measurement, measuring conditions, and method of notation all comply with ISO7779-1999. Sound level may vary between units

[8] Requires lens hood extension for Class 1, Risk Group 3

For the most current specification information, please visit christiedigital.com

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