

CHRISTIE ECLIPSE G3

Ultra-premium home theaters | planetariums | attractions

The ultimate projector for immersive experiences, Christie Eclipse G3 delivers a degree of detail and depth of color not possible with any other projector.

The pinnacle of display performance

Discover the unsurpassed image quality of true HDR performance with the deepest, darkest onscreen blacks imaginable. Experience richly saturated color and breathtakingly lifelike visuals with Eclipse G3's expansive color palette, \approx 98% of Rec. 2020.

The third generation of Eclipse technology

Eclipse G3 maintains 30,000 ANSI lumens for the first 50,000 hours. It's not only brighter and more durable, it's also more refined, with built-in RGB pure laser illumination and a streamlined, easier-to-install form factor.

"Video black" is a thing of the past

- › A unique 6DLP projector, Eclipse G3 displays true blacks without any residual light, dramatically enhancing image quality. It enables the richest visual experiences in fully light-controlled environments. It also reduces system complexity by eliminating the need for black-level blending adjustments and masking in multi-projector arrays.
- › Eclipse G3 processes and reproduces true HDR imagery on-screen, achieving an unparalleled sequential contrast ratio of up to 20,000,000:1 — 100 times Rec. 2100 contrast performance — for exceptional detail in the extreme black range and stunning specular highlights*.

*A specular highlight is a bright spot of light that reflects off a shiny surface. They are important in 3D computer graphics, cinematography, and photography.



CHRISTIE®

Technical specifications

Christie Eclipse G3

Image	Brightness	• 30,000 ANSI lumens with high contrast and high brightness lenses				
	Contrast	• Up to 20,000,000:1 (sequential) ¹ with ultra high contrast lenses				
Display technology	Type	• 6DLP				
	Resolution	• 4096 x 2160 (4K)				
Illumination	Type	• Solid-state RGB (red, green & blue) pure laser illumination system				
	Typical performance	• Maintains 100% brightness for the first 50,000 hours				
	Color performance	• ~98% coverage of Rec. 2020				
	Field replaceable	• Yes				
Orientation		• Omnidirectional				
Image processing		• Christie TruLife+™ electronics, 1.2Gpx/s				
Color depth		• 10-bit or 12-bit, subject to resolution and frame rate				
Frame rates		• 2D 4K 24-120 Hz • Active 3D capability of 4K 48-60 Hz per eye (active 3D accessories not included)				
Inputs	Standard	• 1 x HDMI 2.1 • 2 x HDMI 2.0 • 2 x DisplayPort 1.4 • 2 x DisplayPort 1.2 • 4 x 12G-SDI (full-size BNC) • SDVoE (Christie Terra® equipment is optional) • 2x QSFP+: 2 inputs or 1 input/1 output (for optional Christie® Link)				
Warping and blending	Standard	• Christie Twist™				
	Optional	• Twist Premium • Twist Pro • Mystique™				
Multi-projector management	Optional	• Christie Conductor monitors/controls up to 256 projectors on a single network. (Complimentary download)				
Lenses	High contrast ²	• 1.13-1.72:1 • 1.35-1.84:1 • 1.45-2.10:1 • 1.65-2.70:1				
	Ultra high contrast ³ (ILS4)	• 0.72:1, 0.9:1, 1.13-1.66:1, 1.45-2.17:1, 1.95-3.26:1, 2.71-3.89:1				
	High brightness (ILS4)	• 0.38:1 UST ⁴ , 0.72:1, 0.9:1, 1.95-3.26:1, 2.71-3.89:1				
Power		Projector	Chiller			
	Line voltage	• Lasers: 200-240 VAC at 50-60 Hz 24 A, single phase ⁵ • Electronics: 100-240 VAC at 50-60 Hz 6.5 A ⁶	• 200-240 VAC at 50-60 Hz 8.9-11.5 A, single phase ⁷ • Typical: 2,160W • Maximum: 2,300W			
	Power consumption	• Typical: 3,055 + 312W, total 3,367W • Maximum: 4,800 + 650W, total 5,350W				
	Room heat load ⁸	• Typical: 4,900 BTU/hr • Maximum: 8,443 BTU/hr				
	Total room heat load with projector and chiller in the same space	• Typical: 18,845 BTU/hr • Maximum: 26,428 BTU/hr				
Cooling		• Internal closed liquid cooling loop: air cooled • Chilling loop to external chiller: high-performance water based/propylene glycol solution	• Internal closed loop chiller: refrigerant • External: air cooled • Heating element to maintain stable coolant temperature in the external chiller/projector loop • Standard hose lengths: 10' (3 m), 15' (4.5 m) 30' (9.1 m) Longer and custom lengths are available. Contact an authorized Christie representative for details.			
Laser class		• Class 1 – Risk Group 3 • Meets Class 1, Risk Group 2 with the following lenses installed: 0.38:1 UST, 0.72:1 high brightness, 0.72:1 ultra high contrast, 0.9:1 ultra high contrast				
Dimensions	Size (LxWxH)	• 55 x 28 x 24.7" (1,397 x 711 x 627 mm) without lens and feet	• 23.4 x 14.8 x 37" (595 x 377 x 976 mm) incl. casters			
	Weight	• 413 lbs (188 kg)	• 161 lbs (73 kg)			
Sound		• ≤45 dBA up to 23 C				
Operating environment		• Optimal: 68-73 F (20-23 C) and stable • Optimal relative humidity: 40-50% non-condensing				
		• 66/68 dBA (50/60 Hz) • Optimal: 65-82 F (18-28 C) • Maximum: 41-104 F (5-40 C) up to 3,300' (1,000 m) • Humidity: 30 to 70% non-condensing • Altitude: < 9,900' (3,000 m)				
Warranty		• Three years parts and labor • Reference the Christie Standard Limited Warranty document for details or contact an authorized Christie representative for full details of our limited warranty and extended warranty options				

1. Contrast ratio is up to 10,000,000:1 with high contrast and high brightness lenses.
2. Requires ILS4 lens mounting kit (003-005538-XX).
3. Brightness is reduced by approximately 30% with the use of an ultra high contrast lens.
4. Brightness is reduced by up to 30% with the use of the UST lens. Focus drift can occur with this lens when switching between prolonged periods of light and dark content depending on extreme APL changes.
5. Hard wired connection is required, requires a branch circuit breaker – 30 A or 32 A, as per local code
6. C14 input, requires a 15 A breaker. Use of Christie supplied uninterruptible power supply is recommended for the electronics.
7. Branch circuit breaker inrush current requires 30 A or 32 A, as per local codes.
8. HVAC system must be designed to accommodate maximum, not typical values.

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

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