

CHRISTIE ECLIPSE

Planetariums | Giant screens | Dome theaters | Theme parks and attractions

True HDR. Immersive experiences, redefined.

The Christie® Eclipse 4K RGB pure laser projector produces true HDR imagery with a previously unimaginable contrast ratio of up to 20,000,000:1. Combining true HDR performance with an expansive color gamut approaching the full Rec. 2020 / Rec. 2100 color space, Eclipse provides an unparalleled visual experience. Audiences are immersed in a degree of detail and depth of color that have never before been possible in any Pro-AV projection system.

The blackest blacks and brightest whites

With Christie Eclipse, 'video black' is a thing of the past. Black is now truly black, with no residual light. Whites are brighter than ever. Not only does this result in incredible images, it also reduces system complexity. There's no need for optical filters, black-level blending adjustments, or masking in multi-projector arrays.

Peace of mind

Enjoy the stability and reliability of solid-state illumination and the long life of RGB pure laser technology, with an incredible 30,000 hours of optimal performance to 80% brightness.

Designed to thrill

Available in 3 brightness levels—9000 lumens, 17,000 lumens, and 25,000 lumens—Eclipse can light up even the largest of screens with brilliant visuals. From incredible journeys into the cosmos to amazing, at-the-edge-of-your-seat dark-ride adventures, Eclipse empowers you to create the truly immersive experiences your audiences crave and keep them coming back for more.



CHRISTIE®

Technical specifications

Christie Eclipse

Image	brightness	• 9000 ANSI lumens typical (2000 to 9000 lumens, configurable) • 17,000 ANSI lumens typical • 25,000 ANSI lumens typical¹	
	contrast	• 20,000,000:1 (sequential)^{1, 2}	
Display technology	type	• 6 DLP®	
	resolution	• 4K (4096 x 2160) • 4K (3840 x 2160) supported without scaling	
Illumination	type	• RGB pure laser (solid-state illumination)	
	typical performance	• 30,000 hours to 80% brightness	
Orientation		• Landscape 360 degrees and portrait orientation	
Image processing		• Christie TruLife™ electronics, 1.2Gpx/s pixel clock	
Color depth		• 8-bit, 10-bit or 12-bit, subject to resolution and frame rate	
Frame rates		• 24-120Hz	
Inputs	standard	• 4 x 12G-SDI • 2 x HDMI 2.0 • 2 x DisplayPort 1.2 • Fiber (QSFP+) for fiber use with Christie Link Transmitter (1 input/1 output) • HDBaseT • Terra® (SDVoE)	
Warping and blending	standard	• Christie Twist™	
	optional	• Christie Twist Premium • Christie Twist Pro • Christie Mystique™	
Lenses		• 1.13-1.72:1 • 1.35-1.84:1 • 1.45-2.10:1 • 1.65-2.70:1 • All are available in premium high brightness or premium ultra-high contrast	
Input line voltage	projector head	• 200-240 VAC @50-60Hz 15A, single phase	
	laser unit	• 200-240 VAC @50-60Hz, single phase	
	chiller	• 200-240 VAC, single phase	
Cooling	projector head	• Air cooled, self-contained	
	laser unit	• Chiller required (optional purchase from Christie). Can be placed up to 100 feet (30 meters) away. Contact your Christie representative for chiller specifications.	
Laser class		• Class 1 - Risk Group 3	
Fiber length		• Standard 26 or 33 feet (8 or 10 meters). Other lengths also available, up to 164 feet (50 meters).	
Dimensions		Projector head	Laser unit
	size (not including lens)	• (LxWxH) 41.5 x 31 x 33.5" (1049 x 784 x 845mm)	• (LxWxH) 30.6 x 31.7 x 25.7" (777 x 804 x 653mm)
	weight	• 346lbs (157kg)	• 330lbs (150kg)
Sound level		• 62 to 80dBA³	• > 10dBA
Operating environment	temperature	• 9000 and 17,000 lumens: 61 to 86°F (16 to 30°C) ambient • 25,000 lumens: 61 to 75°F (16 to 24°C) ambient	
	humidity	• 20 to 80% relative humidity, ambient, non-condensing	
Warranty		• Three years parts and labor (projector head and laser unit) • Contact an authorized Christie representative for full details of our limited warranty	

Key features

- › **True HDR (high dynamic range) projector** – Achieves up to 20,000,000:1 contrast (sequential). No optical filters or black-level blending required for multi-projector blended systems
- › **Rec. 2100** – Approaches the full Rec. 2020 / Rec. 2100 color space producing highly saturated color for ultra-realistic immersive experiences. What's more, Eclipse exceeds Rec. 2100's minimum 200,000:1 contrast ratio specification by 100x!
- › **True 4K resolution** – 4096 x 2160
- › **Brightness level to suit your environment** – 9000, 17,000 or 25,000 lumens
- › **Christie TruLife electronics** – Powerful processing that delivers high frame rate video of 120fps at 4K for detail-rich visuals and 3D processing⁴
- › **Long-lasting, silent⁵, reliable RGB laser light source** – 30,000 hours of optimal brightness performance to 80% brightness
- › **Compatible with Christie Mystique automated, camera-based alignment solution** – Eliminates the challenges, time and expertise required to align, warp and blend complex multi-projector arrays
- › **Lens use** – Compatible with all Christie 4K lenses

¹ Contrast ratio for 25,000 lumen model is up to 10,000,000:1 with premium high brightness lens

² Depends on APL (Average Picture Level) of content

³ Subject to operating brightness level and environmental conditions

⁴ Coming in Fall 2022

⁵ Less than 10dBA

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

Copyright 2021 Christie Digital Systems USA, Inc. All rights reserved. All brand names and product names are trademarks, registered trademarks or tradenames of their respective holders. "Christie" is a trademark of Christie Digital Systems USA, Inc., registered in the United States of America and other countries. DLP® and the DLP logo are registered trademarks of Texas Instruments. Performance specifications are typical. Due to constant research, specifications are subject to change without notice. CD2230_Christie Eclipse_Datasheet_Sept-21_EN

