

CHRISTIE SAPPHIRE 4K40-RGBH

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

Performance no other laser phosphor projector can match

Experience the breathtaking color that ProAV has been waiting for

You don't have to settle for Rec. 709 anymore. With its unique dual illumination source, Christie Sapphire® 4K40-RGBH produces a broader spectrum of light, boasting the beauty of P3 color, the power of 40,950 lumens, and the clarity of native 4K resolution, delivering the stellar performance that will bring your audience to their feet.

Light up any screen, any stage, any attraction

Sapphire is engineered for any 2D application and all active and passive 3D formats. It's all-screen compatible, enabling optimal viewing for standard gain screens, rear-screen projection surfaces, and silver screen 3D.

Key features

- › **TruLife+™ all-in electronics** with every connection you need built in, including quad 12G-SDI with full-size BNCs, four DisplayPort connections, three HDMI connections, and more.
- › **Compatible with all Christie® 4K 3DLP ILS4 lenses.**
- › **Fully field-serviceable** for easy projector and light source maintenance.
- › **Exclusive Infitec® color-comb 3D option** for dark rides, other media-based attractions, and visualization powerwalls. Sapphire delivers better light efficiency and a broader color gamut than traditional laser phosphor and lamp-based projectors, offering a brighter, richer, more lifelike 3D experience.



CHRISTIE®

Technical specifications		Christie Sapphire 4K40-RGBH
Image	brightness ^{1,2,3,4}	<ul style="list-style-type: none"> • 40,950 ISO lumens • 36,400 ANSI lumens
	contrast	<ul style="list-style-type: none"> • 2000:1 On/Off • 4500:1 On/Off³ with ultra high contrast lens
Display technology	type	<ul style="list-style-type: none"> • Dust-sealed 3DLP (1.38")
	resolution	<ul style="list-style-type: none"> • 4096 x 2160 native 4K resolution
Sound		<ul style="list-style-type: none"> • 58.4 dBA^{5,6} (2D and single-projector active or polarized 3D) • 53 dBA^{5,6} (dual-projector 3D; each projector)
Illumination	type	<ul style="list-style-type: none"> • Unique hybrid illumination: Solid-state RGB (red, green & blue) pure laser combined with dual laser phosphor system
	performance	<ul style="list-style-type: none"> • RGB laser light source: 25,000 hours to 50% brightness when operated at 100% brightness⁷ • Laser phosphor light source: 20,000 hours to 50% brightness when operated at 100% brightness
	color performance	<ul style="list-style-type: none"> • Nominally DCI-P3. DCI-P3+ capable
	field replaceable	<ul style="list-style-type: none"> • Yes
Orientation		<ul style="list-style-type: none"> • Omnidirectional
Image processing		<ul style="list-style-type: none"> • Christie TruLife+™ electronics, 1.2 Gpx/s
Frame rates	standard	<ul style="list-style-type: none"> • 24-60 Hz 4K (4096 x 2160) and/or 4K UHD (3840 x 2160)
	optional - high frame rates and active 3D	<ul style="list-style-type: none"> • 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 • 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 240 Hz at 2K via four feeds of 24-60 Hz
	optional - color comb 3D	<ul style="list-style-type: none"> • 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)
Passive 3D	optional - polarized 3D	<ul style="list-style-type: none"> • 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) • 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)
Inputs	standard	<ul style="list-style-type: none"> • 1 x HDMI 2.1 • 2 x HDMI 2.0 • 2 x DisplayPort 1.4 • 2 x DisplayPort 1.2
		<ul style="list-style-type: none"> • 4 x 12G-SDI (full-size BNC) • SDVoE (Christie Terra®) • Christie Link 1 input/1 output (2x Fiber/QSFP+)
Warping and blending	standard	<ul style="list-style-type: none"> • Christie Twist™ • Christie Mystique™ Lite (complimentary software download)
	optional	<ul style="list-style-type: none"> • Twist Premium and Twist Pro • Mystique - Essentials, Pro Venue, Premium & Large Scale Experience Editions
Multi-projector management	optional	<ul style="list-style-type: none"> • Christie Conductor monitors/controls up to 256 projectors on a single network (complimentary software download)
Lenses	high brightness	<ul style="list-style-type: none"> • 0.38:1 UST high brightness (ILS4)² • 0.72:1 high brightness (ILS4) • 0.9:1 high brightness (ILS4) • 1.13-1.66:1 high brightness (ILS4) • 1.45-2.17:1 high brightness (ILS4)
	ultra high contrast ³	<ul style="list-style-type: none"> • 0.72:1 ultra high contrast (ILS4) • 0.9:1 ultra high contrast (ILS4) • 1.13-1.66:1 ultra high contrast (ILS4) • 1.45-2.17:1 ultra high contrast (ILS4)
Power	line voltage	<ul style="list-style-type: none"> • 200-240 VAC, 20 A, 50/60 Hz single phase • 100-120 VAC, 15 A, 50/60 Hz single phase (30% brightness maximum) • Connector: IEC60309 30 A • Optional hard-wired cable connection kit is available (to be installed by a qualified electrician)
	power consumption	<ul style="list-style-type: none"> • 2,900W typical (9,895 BTU/hr) • 4,000W max (13,650 BTU/hr)
Cooling		<ul style="list-style-type: none"> • Liquid, self-contained
Laser class		<ul style="list-style-type: none"> • Class 1, Risk Group 3 • Meets Class 1, Risk Group 2 with the following lenses installed: 0.38:1, 0.72:1, 0.9:1
Operating environment		<ul style="list-style-type: none"> • 5-40 C (41-104 F) • Relative humidity: 10-80% non-condensing
Dimensions (without lens)	size	<ul style="list-style-type: none"> • (LxWxH): 36.3 x 25 x 15" (922 x 635 x 380 mm)
	weight	<ul style="list-style-type: none"> • 202.8 lbs (92 kg)

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 an ultra high contrast lens

⁴ In ambient temperatures up to 30 C

⁵ In standard mode at 23 C. 56.7 dBA in quiet fan mode at 23 C.

⁶ Sound pressure measurement, measuring conditions, and method of notation all comply with ISO7779-1999. Sound level may vary between units.

⁷ Based on 9-point average (results may vary depending on environmental conditions i.e., ambient temperature, humidity, dust, smog, or other contaminants.)

⁸ 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

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