

CP4450-RGB

Premium large format auditoriums | Advanced format cinema | Event cinema

World's first advanced format cinema projector featuring Christie RealLaser™ technology for screens up to 114 feet wide



Key features:

- › **Hyper realism** - new system architecture that displays content without motion blur and artifacts
- › **Ultra-fast processing** - HDMI 2.0 and 4x 12GB SDI inputs for 1.06G pixels per sec
- › **PLF performance** - brightest direct-coupled RGB laser cinema projector
- › **Long-lasting light source** - over 50,000 hours of optimal performance
- › **Low maintenance** - sealed optics for protection against dust ingress
- › **Best-in-class operational efficiency** - 10.5 lumens per watt

CHRISTIE
RealLaser™

Advanced laser light source for accurate reproduction of DCI content

CineLife+™

Adds ultra high frame rate providing each eye 2K 120fps, 4K 120fps, 4K 3D 60fps

TEMPERATURE CONTROL

External liquid cooling for optimal thermal efficiency



Specifications

Christie CP4450-RGB

Brightness	nominal	• Up to 55,000 lumens with HB lens, 42,000 lumens with UHC lens
	lifetime	• >50,000 ¹
Contrast ratio		• Up to 6000:1 full on/off with UHC lens, 2000:1 with standard HB lens
Digital micromirror device		• 1.38" Enhanced 4K 3-chip DMD DLP Cinema® • 4096x2160 (4K)
Color gamut	native gamut	• >95% Rec 2020 coverage
Processing electronics		• Christie® CineLife+™ Series (Series-2 IMB compatible) ² • HDMI 2.0 x2 • 4K120 fps ³ • 1G Ethernet x1 • 12G SDI x 4 • DisplayPort 1.2 x2
Lens mount configuration		• Fully motorized Intelligent Lens System (ILS™)
Lenses		• HB and UHC: 0.9:1 (HB) / 1.13-1.66 / 1.31-1.85 / 1.45-2.17 / 1.63-2.71 / 1.95-3.26 / 2.71-3.89
Power input requirements		• Input A and Input B: 200-240 VAC @ 50-60Hz, 16A max each • UPS Input: 200-240 VAC @ 50-60Hz, Single phase, 10A max • Chiller: 200-240 VAC @ 50-60Hz, 20A max
Power consumption		• 5450W ⁴ including chiller, max DCI brightness, @25°C 18,600 BTU/hr
Heat extraction		• No heat extraction necessary. CFM requirements when used: • Projector 350 CFM min • Chiller 1340 CFM min
Laser class		• Class 1 – Risk Group 3
Noise level		• <70 dBA @ 25°C
Environment		• Ambient temperature: 15-30°C • Humidity (non-condensing): 20-80% • Altitude: <3000 m
Dimensions (w/o lens)	size (LxWxH)	• Projector head: 61.1x28.0x22.0" (1551.1x710.6x559.6mm) • Projector pedestal: 53.9x29.8x29.1" (1369.8x756.0x739.4mm)
Weight		• Projector head: 385lbs (175kg)
Chiller dimensions		• (LxWxH): 26.38x18.5x35.0" (670x470x890mm); 202lbs (92kg) • Chiller hose: 33ft (10m)
Accessories		• Rack mount pedestal • 50Hz chiller • 60Hz chiller • Chiller setup kit plumbing • Coolant ⁵ • Chiller setup kit ducts

¹ Subject to variables specific to each installation. Please see Christie's laser best practices guide for more information.

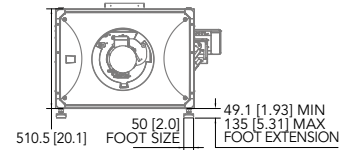
² Supports legacy Series 2 IMBs. A list of supported versions is available upon request.

³ With the GDC SR-6400 IMB.

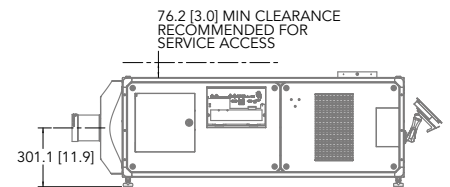
⁴ Typical power consumption. May be impacted by environmental conditions.

⁵ 10L bottle of 702 coolant. Requires 3 bottles per projector.

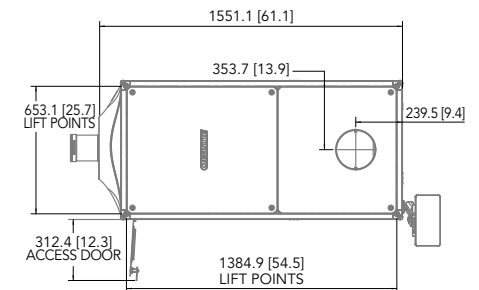
Front view



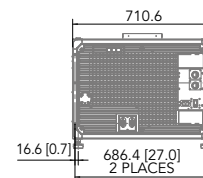
Side view



Top view



Back view



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

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