Christie has the integrated cinema solutions to inspire and engage moviegoers, and keep your theatre running smoothly 24/7

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RGB pure laser projectors use banks of laser diodes in individual red, green and blue color primaries. These diodes are color-mixed to produce a nearly infinite amount of pure, rich colors in the visible spectrum, including pure white light.
OUR MASTERY OF LIGHT

Artists, they say, come in three kinds: Those with a good eye. Those with great hands. And the exceptional few, the Vermeers and the Michelangelos, blessed with both.

But it takes many pairs of skilled hands to put films in front of audiences. And ours must be safe hands. Masters of the light that paints the pictures filmmakers make and audiences crave.

So unless a projector improves image quality we won’t introduce it. And we’ll only use technology we believe to be right for cinema. That advances the business of which we are part. That is why we were founding members of LIPA. That is why we value our close working relationship with film directors; including Ang Lee and James Cameron.

We have long championed Xenon Illumination; we champion it still. Its purity wins it an enduring place in mainstream cinema. And we champion RGB laser as its only viable replacement. Our mastery of light has taught us it has a natural role in cinema. We doubt Laser Phosphor has. No champion of cinema illumination could recommend an inferior in-between.

There are no halfway houses, no technical fudges that can disguise this. If we expect audiences to leave their homes and pay to enter cinemas, their experience must be incomparable. And it must provide a ROI that makes cinema worth your investment.

Our job is to reveal the imagined worlds locked in a filmmaker’s eye and to make film’s illusion complete. To be masters of light.
“He tries to trick you. I try to enlighten you. Which is the more noble pursuit? May we have the lights, please...”

PROJECTION

We led the global transition from film to digital and continue to be firmly established as the industry standard with Christie recognized as its market leader.
As the first licensee of DLP Cinema® technology, Christie knew the challenge of making cinema digital mainstream was never wholly technical. It needed the enthusiasm of both the filmmakers and the exhibitor community. It needed to inspire and engage moviegoers.

That original insight still holds true today. RGB laser projection in the majority of theatres is fast becoming a practical reality, frame rate and resolution is increasing - but so too are audience and exhibitor expectations. So when we say Christie delivers the complete cinema experience, we must mean just that. Technology, though we love it, is just the means to achieving it.

We are proud to say that we build some of the finest cinema projectors anywhere in the world, and we are proud of the technology we develop to make them. But we’re prouder still of the experiences they create and the businesses they help build.

“It’s just seen my dream come true, right before my eyes. This is what I’ve been working for. The 4K high frame rate 3D and brightness of the CP4450-RGB provide an immersive experience that has changed my relationship with movies.”

Ang Lee, three-time Academy Award®-winning filmmaker
CP2308

Small-screen auditoriums | Boutique cinemas | Screening rooms

A full-featured, Series 3, DCI-compliant projector that offers small-screen exhibitors an advanced, yet affordable digital cinema option. With Xenon illumination and producing up to 9,000 lumens, the CP2308 displays realistic colors and gradients for an immersive experience audiences notice.
Key features

- Easy to operate – adds UX inspired interface for playback, scheduling and content management
- Easy to install – lightweight all-in-one chassis for flexible mounting
- Easy to maintain – rear access lamp change and reusable filters
- Affordable performance – Christie Xenolite® long-life
- Reliability – split power operation for use with UPS
- Compatibility – works with Christie and third-party IMBs, accessories and lenses

Specifications CP2308

<table>
<thead>
<tr>
<th>Brightness</th>
<th>lamp</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.4kW (CDXL-14M) 003-003066-XX</td>
<td>1.9kW (CDXL-19SUP) 003-006734-XX</td>
</tr>
<tr>
<td>1.6kW (CDXL-16M) 003-003900-XX</td>
<td>2.1kW (CDXL-21SUP) 003-006734-XX</td>
</tr>
<tr>
<td>1.9kW (CDXL-19SC) 003-005366-XX</td>
<td></td>
</tr>
<tr>
<td>nominal Up to 9,000 DCI lumens, 10,000 native lumens</td>
<td></td>
</tr>
</tbody>
</table>

Screen size

- 42 feet (12m)

Contrast ratio

- >1700:1 full field on/off

Supported frame rates

- 2D up to 120 fps
- 3D up to 60 fps/eye

Digital micromirror device

- 0.69” S2K 3-chip DMD DLP Cinema®
- 2048 x 1080 pixels (2K)

Power input requirements

- Main input: 200-240VAC @ 50-60Hz 16A max
- UPS input: 100-240VAC @ 50-60Hz 4A max

Number of colors

- 35.2 trillion

Lenses

- 1.2 - 1.72
- 1.33 - 2.1
- 1.62 - 2.7
- 2.09 - 3.9

Power consumption

- 3200W max²

Power supply

- 700W-2.3kW low-ripple switch mode lamp power supply

Automation

- GPIO/Health Connector: x4 opto-isolated GPI (inputs), x4 relay driven GPO (outputs), x1 “Projector Health” status - relay driven output
- “Serial-over-Ethernet” based automation

Weight

- As installed: 119lbs max (53.75kg)

Accessories

- Christie IMB-S32³
- NAS-S2 4TB storage
- NAS-S3 5.4TB storage
- 90-degree extraction duct adapter
- Rack mount stand

Front view

Side view

Top view

Discover more

Christie CP2308 datasheet
Key features and specifications of the CP2308 digital cinema projector

Christie Xenolite lamp brochure
Lamp pairing guide and best practices for lamp usage
Featuring RGB laser illumination and CineLife™ electronics, RGBe projectors deliver improved color gamut, brightness, contrast, and operational life in an affordable projection platform for your small-screen cinemas.
Key features

- 30,000 hours of stable DCI brightness with low-maintenance operation
- Reproduces over 90% of the Rec. 2020 color gamut to create more color-rich images using individual red, green, and blue laser diodes
- Uses multi-wavelength primary color lasers to improve the image performance on high-gain screens
- Fully sealed optics allow for zero dust-ingress

Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>CP2306-RGBe</th>
<th>CP2308-RGBe</th>
<th>CP2310-RGBe</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brightness lifetime</td>
<td>Up to 6,000 DCI lumens</td>
<td>Up to 8,000 DCI lumens</td>
<td>Up to 10,000 DCI lumens</td>
</tr>
<tr>
<td>Screen size</td>
<td>Up to 36’ (11m)</td>
<td>Up to 42’ (12m)</td>
<td>Up to 47’ (14m)</td>
</tr>
<tr>
<td>Contrast ratio</td>
<td>2000:1 full field on/off</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| Digital micromirror device | • 0.69” 52K 3-chip DMD DLP Cinema*  
  • 2048 x 1080 pixels (2K) |
| Color gamut            | >90% of Rec. 2020 coverage |
| Processing electronics | • GPIO/Health Connector with 4 opto-isolated GPI (inputs), 4 relay driven GPO (outputs), “Projector Health” status – relay driven output  
  • “Serial-over-Ethernet” based automation |
| Lens mount configuration | Fully motorized intelligent lens system (ILS) |
| Lenses                 | • 1.2 - 1.72:1  
  • 1.33 - 2.1:1  
  • 1.62 - 2.7:1  
  • 2.09 - 3.9:1 |
| Input line voltage     | Single phase 200-240V |
| Power consumption      | 690W max*  
  | 870W max*  
  | 1050W max* |
| Laser class            | Class 1 – Risk Group 3 |
| Dimensions (w/o lens)  | 27.4 x 27.1 x 15.6” (696 x 688 x 395mm) |
| Weight                 | 115lbs max (52.3kg)  
  | 118lbs max (53.75kg)  
  | 121lbs max (54.85kg) |
| Accessories            | • Christie IMB-S3*  
  • NAS-S2 4TB storage  
  • NAS-S3 5.4TB storage  
  • 90-degree extraction duct adapter  
  • Rack mount stand |

Discover more

- Christie CP2306-RGBe datasheet
- Christie CP2308-RGBe datasheet
- Christie CP2310-RGBe datasheet
Supercharge your small screen cinema with the Christie CineLife™ CP2309-RGB DCI-compliant projector. Featuring patented Christie Real|Laser™ solid-state illumination and CineLife electronics, the CP2309-RGB delivers 9,000 lumens of brightness, greater than 95% of the Rec. 2020 color space, and a 2000:1 contrast ratio for amazing cinematic experiences. It’s compact, light, all-in-one form factor doesn’t require any external chillers for a seamless installation.
Key features

- Expanded color gamut approaching Rec. 2020, greater brightness and contrast
- Uses MPD technology to improve image quality on all screen types with Enhanced Wavelength Diversity (EWD)
- 50,000+ hours of optimal performance
- Sealed optics protect against dust ingress
- Works with existing Christie accessories and lenses
- Best-in-class operational efficiency – 8.3 lumens per watt

Specifications

- **Brightness**
  - Nominal: Up to 8,500 lumens
  - Lifetime: >50,000 hours

- **Screen size**: 44’ (13.5m)

- **Contrast ratio**: 2000:1 full field on/off with standard high brightness lens

- **Digital micromirror device**
  - 0.69” S2K 3-chip DMD DLP Cinema®
  - 2048 x 1080 pixels (2K)

- **Color gamut**: Native gamut >90% of Rec. 2020 coverage

- **Processing electronics**
  - Christie CineLife™ Series-3 (Series-2 IMB compatible)
  - HDMI v1.4a x2
  - 16-channel AES (w/ Christie IMB-S3 via RJ45 x2)
  - 2K120 / 4K30 fps (w/Christie IMB-S3)
  - Built-in automation controller
  - 3D Sync Connector (12V 1A powered)

- **Lens mount configuration**: Fully motorized intelligent lens system (ILS)

- **Lenses**: 1.2 - 1.72
  - 1.33 - 2.1
  - 1.62 - 2.7
  - 2.09 - 3.9

- **Power consumption**: 1025W, max DCI brightness, @25 C 3500 BTU/hr

- **Power input requirements**
  - Input A: 200-240 VAC @ 50-60Hz, 9A max
  - Input B (UPS input): 100-240VAC @ 50-60Hz, 8A max

- **Laser class**: Class 1 – Risk Group 3

- **Dimensions (w/o lens)**: 42.6 x 25.0 x 13.3” (1083 x 635 x 337mm)

- **Weight**: 160lbs max (73kg)

- **Accessories**
  - Christie IMB-S3
  - NAS-S3 5.4TB storage
  - Rack mount pedestal
  - Rack mount pedestal adaptor
  - Extraction duct adaptor

---

1. Subject to variables specific to each installation. Please see Christie cinema RGB pure laser best practices guide for more information.
2. Supports third party IMB models from Dolby, GDC and others. Please contact Christie for updated compatibility list.
3. Supports most conventional 3D systems except “color-separation” based 3D (i.e. 6P). Visit the website for more information.
4. Typical power consumption. May be impacted by environmental conditions.

---

**Discover more**

- **Christie CP2309-RGB datasheet**
  - Key features and specifications of the CP2309-RGB digital cinema projector
- **Christie Real|Laser FAQ**
  - Frequently asked questions about Real|Laser illumination technology
The Christie CP2415-Xe is a compact digital cinema projector that provides the lowest upfront investment for DCI-compliant cinema on screens up to 58’ (18m) wide. It uses our ultra-fast CineLife+™ Series 4 electronics platform and features our intuitive easy-to-use UI for quick set up and scheduling.
Key features

Affordable performance – Christie Xenolite® long-life, lower power consumption lamps

Easy to install – lightweight all-in-one chassis for flexible mounting

Ultra-fast processing – HDMI 2.0 and 4x 12GB SDI inputs for 1.06G pixels per sec

Flexibility of brightness – Operates with either standard 1.4kW, 1.6kW, 1.8kW, 2.0kW, and 2.3kW lamps

Reliability – split power operation for use with UPS

Rear access for quick and easy lamp changes

Specifications

| CP2415-Xe |
| Brightness lamp | nominal | Up to 15,000 lumens |
| Screen size | 58” (17m) |
| Contrast ratio | >2000:1 full field on/off |
| Supported frame rates | • 2D up to 120 fps • 3D up to 60 fps/eye |
| Digital micromirror device | • 0.98” 2K 3-chip DMD DLP Cinema® • 2048 x 1080 pixels (2K) |
| Power input requirements | • Main input: 200-240VAC 50-60Hz, 16A max • UPS input: 100-240VAC @ 50-60Hz, 10A max |
| Number of colors | 35.2 trillion |
| Lenses | • 1.05:1 • 20-1.75:1 • 1.39-1.90:1 • 1.50-2.20:1 • 1.75-2.40:1 • 190-3.0:1 • 2.40-3.90:1 |
| Power consumption | 3200W max |
| Power supply | 0.7kW - 2.3kW low-ripple switch mode power supply |
| Standard inputs | • HDMI 2.0 x2 • 12G SDI x4 |
| Weight | As installed: 122lbs max (55kg) |
| Accessories | • 90 degree extraction duct adapter • Rack mount pedestal |

Front view

Side view

Top view

Discover more

Christie CP2415-Xe datasheet
Key features and specifications of the CP2415-Xe digital cinema projector

Xenon – Tried, tested and true
Why Xenon illumination is the preferred choice over laser phosphor for mainstream cinema
The Christie CP2420-Xe is a compact digital cinema projector that provides the lowest upfront investment for DCI-compliant cinema on screens up to 70’ (21m) wide. It uses our ultra-fast CineLife+™ Series 4 electronics platform and features our intuitive easy-to-use UI. Your audience will enjoy realistic, true-to-life experience created by the native daylight spectrum Xenon lamps closely replicate – plus the flawless image cinemagoers expect and love.
Key features

Affordable performance – Christie Xenolite® long-life, lower power consumption lamps

Easy to install – lightweight all-in-one chassis for flexible mounting

Ultra-fast processing – HDMI 2.0 and 4x 12G SDI inputs for 1.06G pixels per sec

Flexibility of brightness – Operates with either standard 2kW, 3kW and high performance 3kW lamps

Reliability – split power operation for use with UPS

Specifications

| CP2420-Xe |
|-------------------|-------------------|
| **Brightness** | (w) (CDXL-20) (CDXL-30) |
| nominal | 2.0kW | 3.0kW |
| Screen size | 71' (21m) |
| Contrast ratio | >2000:1 |
| Supported frame rates | 2D up to 120 fps, 3D up to 60 fps/eye |
| Digital micromirror device | 1.2" 2K 3-chip DMD DLP Cinema® |
| | 2048 x 1080 pixels (2K) |
| | Upgradable to 1.38" 4K (4096 x 2160 pixels) |
| Power input requirements | Main input: 200-240VAC @50-60Hz, 23A max |
| | UPS input: 100-240VAC @50-60Hz, 10A max |
| Number of colors | 35.2 trillion |
| Lenses | HB and HC: 1.0:1 (HB lens) 1.25-1.83:1 1.45-2.05:1 1.60-2.40:1 1.80-3.0:1 2.15-3.60:1 3.0-4.30:1 (HB lens) 5.5 -8.5:1 (HB lens) |
| Power consumption | 4200W max |
| Power supply | 3.3kW low-ripple switch mode power supply |
| Standard inputs | HDMI 2.0 x2 12G SDI x4 |
| Weight | As installed 256lbs max (116kg) |
| Accessories | Variable aperture kit Rack mount pedestal |

1 Maximum screen size depends upon various factors such as screen gain, lamp age, geometry, etc. Consult your Christie representative for detailed analysis. Measured at screen center.

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

Spectrum comparison between Xenon lamp and daylight

Christie® Xenolite short arc Xenon lamps Engineered for superior performance in all cinema applications

390nm Daylight visible color 700nm

Discover more

Christie CP2420-Xe datasheet
Key features and specifications of the CP2420-Xe digital cinema projector

Xenon – Tried, tested and true
Why Xenon illumination is the preferred choice over laser phosphor for mainstream cinema
CP4420-Xe

Medium-screen auditoriums | Event cinema | Post-production | Screening rooms

Christie® CineLife+™ CP4420-Xe offers established longevity and dependability, excellent image performance, the lowest operating costs on screens up to 70’ (21m) wide, our ultra fast CineLife+ electronics platform, and an intuitive easy-to-use UI. Your audience will enjoy realistic, true-to-life experience created by the native daylight spectrum Xenon lamps closely replicate – plus the flawless image cinemagoers expect and love.
**Key features**

Affordable performance – Christie Xenolite® long-life, lower power consumption lamps

Easy to install – lightweight all-in-one chassis for flexible mounting

Ultra-fast processing – HDMI 2.0 and 4x 12GB SDI inputs for 1.06G pixels per sec

Flexibility of brightness – Operates with either standard 2kW, 3kW and high performance 3kW lamps

Reliability – split power operation for use with UPS

**Specifications**

<table>
<thead>
<tr>
<th>Lamp type</th>
<th>Brightness (nominal)</th>
<th>Screen size</th>
<th>Contrast ratio</th>
<th>Supported frame rates</th>
<th>Digital micromirror device</th>
<th>Power input requirements</th>
<th>Number of colors</th>
<th>Lenses</th>
<th>Power consumption</th>
<th>Power supply</th>
<th>Standard inputs</th>
<th>Weight</th>
<th>Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>2kW (CDXL-20) 003-000598-XX</td>
<td>Up to 22,000 lumens</td>
<td>71' (21m)</td>
<td>2000:1 full field on/off</td>
<td>2D up to 120 fps</td>
<td>1.4&quot; Enhanced 4K 3-chip DMD DLP Cinema®</td>
<td>Main input: 200-240VAC @50-60Hz, 23A max</td>
<td>35.2 trillion</td>
<td>• HB and HC: 1.0:1 (HB lens)</td>
<td>4200W max</td>
<td>3.3kW low-ripple switch mode power supply</td>
<td>As installed 256lbs max (116kg)</td>
<td>• Variable aperture kit</td>
<td>• Rack mount pedestal</td>
</tr>
<tr>
<td>3kW (CDXL-30) 003-000599-XX</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• 1.25-1.83:1</td>
<td>3.3kW low-ripple switch mode power supply</td>
<td></td>
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</tr>
<tr>
<td>3kW (CDXL-30SD) 003-001165-XX</td>
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<td>• 1.45-2.05:1</td>
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<td>3kW (CDXL-30SUP) 003-006951-XX</td>
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<td>• 1.60-2.40:1</td>
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<td>3kW (CDXL-30SUP) 003-006951-XX</td>
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<td>• 1.80-3.0:1</td>
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<td></td>
<td>• 2.15-3.60:1</td>
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<td>3kW (CDXL-30SUP) 003-006951-XX</td>
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<td></td>
<td></td>
<td>• 3.0-4.30:1 (HB lens)</td>
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<tr>
<td>3kW (CDXL-30SUP) 003-006951-XX</td>
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<td></td>
<td></td>
<td>• 4.3-6.0:1 (HB lens)</td>
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<tr>
<td>3kW (CDXL-30SUP) 003-006951-XX</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• 5.5-8.5:1 (HB lens)</td>
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<td></td>
</tr>
</tbody>
</table>

**Spectrum comparison between Xenon lamp and daylight**

Christie® Xenolite short arc Xenon lamps
Engineered for superior performance in all cinema applications

**Discover more**

Christie CP4420-Xe datasheet
Key features and specifications of the CP4420-Xe digital cinema projector

**Xenon – Tried, tested and true**

Why Xenon illumination is the preferred choice over laser phosphor for mainstream cinema
With the latest RGB pure laser technology at a low TCO, upgrading from Series 1 and 2 2K to Christie® CP2415/20-RGB suddenly makes a lot more sense. Featuring CineLife+™ electronics and RealLaser™ illumination, CP2415-RGB and CP2420-RGB excel in image quality, operational lifetime, and overall cost. Its compact, all-in-one form factor doesn’t require any external chillers or parts for a seamless installation into any booth. As volatile energy costs continue to rise, this operationally efficient, carbon-conscious system yields real savings on your energy bill.
Key features

- Ultra-fast processing – HDMI 2.0 and 4x 12GB SDI inputs for 1.06G pixels per sec
- Long-lasting light source – over 50,000 hours of optimal performance
- Low maintenance – sealed optics for protection against dust ingress
- Enhanced Wavelength Diversity (EWD) – utilising MPD technology to improve image quality on all screen types
- Best-in-class operational efficiency – 12.7 lumens per watt (CP2420-RGB) / 12.9 lumens per watt (CP2415-RGB)

### Specifications

<table>
<thead>
<tr>
<th></th>
<th>CP2415-RGB</th>
<th>CP2420-RGB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brightness</td>
<td>nominal lifetime Up to 15,000 lumens</td>
<td>Up to 20,000 lumens</td>
</tr>
<tr>
<td>Screen size</td>
<td>52’ (15m)</td>
<td>63’ (19m)</td>
</tr>
<tr>
<td>Contrast ratio</td>
<td>Up to 6000:1 full field on/off</td>
<td></td>
</tr>
<tr>
<td>Supported frame rates</td>
<td>• 2D up to 120 fps • 3D up to 60 fps/eye</td>
<td></td>
</tr>
<tr>
<td>Digital micromirror device</td>
<td>• 0.98” mDCZK 3-chip DMD DLP Cinema®</td>
<td>• 2048x1080 (2K)</td>
</tr>
<tr>
<td>Color gamut</td>
<td>native &gt;95% of Rec.2020 coverage</td>
<td></td>
</tr>
<tr>
<td>Lenses</td>
<td>• 1.05:1 • 1.20-1.75:1 • 1.39-1.9:1 • 1.5–2:2:1 • 1.75–2:4:1 • 1.9–3:0:1 • 2:4–3:9:1 • 3:9–6:52</td>
<td></td>
</tr>
<tr>
<td>Power consumption</td>
<td>1180W; max DCI brightness, @25 C 4030 BTU/hr</td>
<td>1545W; max DCI brightness, @25 C 5270 BTU/hr</td>
</tr>
<tr>
<td>Power input requirements</td>
<td>• Input A: 200-240 VAC @ 50-60Hz, 10A max</td>
<td>• Input A: 200-240 VAC @ 50-60Hz, 12A max</td>
</tr>
<tr>
<td></td>
<td>• Input B (UPS input): 100-240VAC @ 50-60Hz, 10A (8A typical) @ 120V 4030 BTU/hr</td>
<td>• Input B (UPS input): 100-240VAC @ 50-60Hz, 10A max</td>
</tr>
<tr>
<td>Laser class</td>
<td>Class 1 – Risk Group 3</td>
<td></td>
</tr>
<tr>
<td>Dimensions (w/o lens)</td>
<td>size (LxWxH) 42.6 x 25.0 x 13.3” (1083 x 635 x 337mm)</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>As installed: 174lbs max (79kg)</td>
<td>As installed: 176lbs max (80kg)</td>
</tr>
<tr>
<td>Accessories</td>
<td>• Touch panel controller (optional) • Rack mount pedestal • Rack mount pedestal adaptor • Extraction duct adaptor</td>
<td></td>
</tr>
</tbody>
</table>

1 Subject to variables specific to each installation. Please see Christie cinema RGB pure laser best practices guide for more information.

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

3 Available in HB and UHC lens versions. Typical power consumption. May be impacted by environmental conditions.

### Discover more

- Christie CP2415-RGB datasheet [Key features and specifications of the CP2415-RGB digital cinema projector]
- Christie CP2420-RGB datasheet [Key features and specifications of the CP2420-RGB digital cinema projector]
CP4415-RGB | CP4420-RGB

Small & medium-screen auditoriums | Event cinema | Post production | Screening rooms

Christie® CP4415-RGB and CP4420-RGB pure laser cinema projectors bring a premium moviegoing experience to mainstream theatres. Featuring CineLife+™ electronics and Real|Laser™ illumination, these compact, all-in-one DCI-compliant projectors excels in image quality and operational lifetime while providing a low cost of ownership.
Key features

- Ultra-fast processing – HDMI 2.0 and 4x 12GB SDI inputs for 1.06G pixels per sec
- Long-lasting light source – over 50,000 hours of optimal performance
- Low maintenance – sealed optics for protection against dust ingress
- Enhanced Wavelength Diversity (EWD) – uses MPD technology to improve image quality on all screen types
- Best-in-class operational efficiency – 11.9 lumens per watt (CP4415-RGB) / 12.9 lumens per watt (CP4420-RGB)

Specifications

<table>
<thead>
<tr>
<th></th>
<th>CP4415-RGB</th>
<th>CP4420-RGB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brightness</td>
<td>nominal</td>
<td>Up to 15,000 lumens¹</td>
</tr>
<tr>
<td>Screen size</td>
<td>52” (15m)</td>
<td>63’ (19m)</td>
</tr>
<tr>
<td>Contrast ratio</td>
<td>Up to 6000:1 full field on/off²</td>
<td></td>
</tr>
<tr>
<td>Supported frame rates</td>
<td>• 2D up to 120 fps • 3D up to 60 fps/eye</td>
<td></td>
</tr>
<tr>
<td>Digital micromirror device</td>
<td>• 1.38” Enhanced 4K 3-chip DMD DLP Cinema²</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• 4096x2160 (4K)</td>
</tr>
<tr>
<td>Color gamut</td>
<td>native &gt;95% of Rec.2020 coverage</td>
<td></td>
</tr>
<tr>
<td>Lens mount configuration</td>
<td>Fully motorized Intelligent Lens System (ILS³)</td>
<td></td>
</tr>
<tr>
<td>Lenses²</td>
<td>• HB and UHC: 1.13-1.66 • 1.31-1.85 • 1.45-2.17 • 1.63-2.71 • 1.95-3.26 • 2.71-3.89 • 3.89-5.43 • 4.98-7.69</td>
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<tr>
<td>Power consumption</td>
<td>1265W, max DCI brightness, @25 C 4320 BTU/hr</td>
<td>1555W, max DCI brightness, @25 C 5305 BTU/hr</td>
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<tr>
<td>Power input requirements</td>
<td>• Input A: 200-240 VAC @ 50-60Hz, 10A max</td>
<td>• Input A: 200-240 VAC @ 50-60Hz, 15A max</td>
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<tr>
<td></td>
<td>• Input B (UPS input): 100-240VAC @ 50-60Hz, 10A max</td>
<td>• Input B (UPS input): 100-240VAC @ 50-60Hz, 10A max</td>
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<tr>
<td>Laser class</td>
<td>Class 1 – Risk Group 3</td>
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</tr>
<tr>
<td>Dimensions (w/o lens)</td>
<td>size (LxWxH)</td>
<td>• 37.2 x 28.0 x 20.7” (944 x 711 x 525mm)</td>
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<tr>
<td>Weight</td>
<td>As installed: 238lbs (108kg)</td>
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</tr>
<tr>
<td>Accessories</td>
<td>• Rack mount pedestal • Rack mount pedestal adaptor • Extraction duct adaptor • Touch panel controller (optional) • Enhanced 4K HB and UHC lens suite available</td>
<td></td>
</tr>
</tbody>
</table>

¹With existing high brightness cinema lens. Subject to variables specific to each installation. Please see Christie cinema RGB pure laser best practices guide for more information. ²With new UHC cinema lens. ³Supports legacy Series 2 IMBs. A list of supported versions is available upon request. ⁴With the GDC SR-6400 IMB. ⁵Typical power consumption. May be impacted by environmental conditions.

Efficiency against competition
Lumens per watt

Discover more

- Christie CP4415-RGB datasheet
- Christie CP4420-RGB datasheet

Key features and specifications of the CP4415-RGB digital cinema projector
Key features and specifications of the CP4420-RGB digital cinema projector
The Christie® CP4425-RGB and CP4435-RGB pure laser cinema projectors enable exhibitors to impress audiences with incredibly colorful and detailed, true-to-life images while benefiting from an affordable platform that will perform well into the future. Bring a premium moviegoing experience to mainstream theatres with this compact, all-in-one DCI-compliant projector that features CineLife+™ electronics and Real|Laser™ illumination.
Key features

- **Ultra-fast processing** – HDMI 2.0 and 4x 12GB SDI inputs for 1.06G pixels per sec
- **Long-lasting light source** – over 50,000 hours of optimal performance
- **Low maintenance** – sealed optics for protection against dust ingress
- **Enhanced Wavelength Diversity (EWD)** – uses MPD technology to improve image quality on all screen types
- **Best-in-class operational efficiency** – 14.1 lumens per watt (CP4425-RGB) / 14.5 lumens per watt (CP4435-RGB)

### Specifications

<table>
<thead>
<tr>
<th>CP4425-RGB</th>
<th>CP4435-RGB</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Brightness</strong></td>
<td>nominal Up to 26,000 lumens¹</td>
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<tr>
<td><strong>Screen size</strong></td>
<td>&gt;50,000 hours¹</td>
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<tr>
<td><strong>Contrast ratio</strong></td>
<td>Up to 6000:1 full field on/off¹</td>
</tr>
<tr>
<td><strong>Supported frame rates</strong></td>
<td>• 2D up to 120 fps • 3D up to 60 fps/eye</td>
</tr>
<tr>
<td><strong>Digital micromirror device</strong></td>
<td>• 1.38” Enhanced 4K 3-chip DMD DLP Cinema¹</td>
</tr>
<tr>
<td><strong>Color gamut</strong></td>
<td>native &gt;95% of Rec. 2020 coverage</td>
</tr>
<tr>
<td><strong>Processing electronics</strong></td>
<td>• Christie® CineLife+™ Series (Series-2 IMB compatible)¹</td>
</tr>
<tr>
<td></td>
<td>• HDMI 2.0 x2 • 4K120 fps⁵</td>
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<td></td>
<td>• DisplayPort 1.2 x2 • Remote UI • Electronic Color Convergence (ECC)</td>
</tr>
<tr>
<td><strong>Lens mount configuration</strong></td>
<td>Fully motorized Intelligent Lens System (ILS™)</td>
</tr>
<tr>
<td><strong>Lenses</strong></td>
<td>• HB and UHC: 1.13-1.66 • 1.31-1.85 • 1.45-2.17 • 1.63-2.71</td>
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<td></td>
<td>• 1.95-3.26 • 2.71-3.89 • 3.89-5.43 • 4.98-7.69</td>
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<td><strong>Power consumption</strong></td>
<td>1,840W, max DCI brightness @ 25°C 6,280 BTU/hr</td>
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<tr>
<td><strong>Power input requirements</strong></td>
<td>• Input A: 200-240 VAC @ 50-60Hz, 17A max</td>
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<tr>
<td><strong>Laser class</strong></td>
<td>Class 1 – Risk Group 3</td>
</tr>
<tr>
<td><strong>Dimensions (w/o lens)</strong></td>
<td>size (LxWxH) • 37.2 x 28.0 x 20.7” (944 x 711 x 525mm)</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>As installed: 267lbs (121kg)</td>
</tr>
<tr>
<td><strong>Accessories</strong></td>
<td>• Rack mount pedestal • Rack mount pedestal adaptor • Extraction duct adaptor</td>
</tr>
</tbody>
</table>

¹With existing high brightness cinema lens.
²Subject to variables specific to each installation. Please see Christie’s laser best practices guide for more information.
³With new UHC cinema lens.
⁴Supports legacy Series 2 IMBs. A list of supported versions is available upon request.
⁵With the GDC SR-6400 IMB.

Typical power consumption. May be impacted by environmental conditions.

Efficiency against competition
Lumens per watt

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Discover more

- **Christie CP4425-RGB datasheet**
  Key features and specifications of the CP4425-RGB digital cinema projector
- **Christie CP4435-RGB datasheet**
  Key features and specifications of the CP4435-RGB digital cinema projector
CP4445-RGB

Premium large format auditoriums | Advanced format cinema | Event cinema

Christie CP4445-RGB pure laser cinema projectors define the premium moviegoing experience for large format theatres. Featuring CineLife+™ electronics and Real|Laser™ illumination, this compact DCI-compliant projector excels in image quality, operational lifetime, and onscreen brightness. With CP4440-RGB, exhibitors can impress audiences with incredibly colorful and detailed, true-to-life 4K images while benefiting from a platform designed to support the content and formats of the future.
Key features

- **Ultra-fast processing with HDMI 2.0 and 4x 12GB SDI inputs for 1.06G pixels per sec**

- **Enhanced Wavelength Diversity (EWD)** – uses MPD technology to improve image quality on all screen types

- **Over 50,000 hours of stable DCI brightness**

- **Capability of playing back incredibly high bit-rate content up to 4K120**

- **Tool-free filter replacements and fully-sealed optics for protection against dust-ingress**

- **Best-in-class operational efficiency – 11.2 lumens per watt**

Specifications | CP4445-RGB
--- | ---
**Brightness** | nominal Up to 47,000 lumens with HB lens, 35,000 lumens with UHC lens¹
| lifetimel >50,000 hours²
**Screen size** | 99 feet (30 meters)
**Contrast ratio** | Up to 6000:1 sequential with UHC lens, 2000:1 with standard high brightness lens
**Supported frame rates** | • 2D up to 120 fps • 3D up to 60 fps/eye
**Digital micromirror device** | • 1.38” Enhanced 4K 3-chip DMD DLP Cinema® • 4096x2160 (4K)
**Color gamut** | native gamut >95% of Rec.2020 coverage
**Processing electronics** | • Christie® CineLife+™ Series (Series-2 IMB compatible)³ • HDMI 2.0 x2 • 4K120 fps¹ • 1G Ethernet x1 • 12G SDI x 4 • DisplayPort 1.2 x 2 • Remote UI • Electronic Color Convergence (ECC)
**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 • 2.71-3.89
**Power consumption** | 4185W including chiller, max DCI brightness, @25°C 14,270 BTU/hr
**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
**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: <3,000 m
**Dimensions (w/o lens)** | size (LxWxH)
• Projector head: 61.1 x 28.0 x 22.0” (1551.1 x 710.6 x 559.6mm)
• Projector pedestal: 53.9 x 29.8 x 29.1” (1369.8 x 756.0 x 739.4mm)
**Weight** | Projector head: 368lbs (167kg)
**Accessories** | • Rack mount pedestal • 50Hz chiller • 60Hz chiller • Chiller setup kit plumbing • Coolant • Chiller setup kit ducts

¹ With Enhanced Wavelength Diversity (EWD). Subject to variables specific to each installation. Please see Christie’s laser best practices guide for more information.

² Subject to variables specific to each installation. Please see Christie’s laser best practices guide for more information.

³ Supports legacy Series 2 IMBs. A list of supported versions is available upon request.

⁴ With the GDC SR-6400 IMB.

⁵ Typical power consumption. May be impacted by environmental conditions.

⁶ 10L bottle of 702 coolant. Requires 3 bottles per projector.

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**Discover more**

- Christie CP4445-RGB datasheet
- Key features and specifications of the CP4445-RGB digital cinema projector

- Christie rental mode program
- Create new opportunities with rental mode. Available on CineLife and CineLife+ projectors
Built on the CineLife+™ platform, the CP4455-RGB is capable of displaying HFR titles in 4K at 120 fps. With this new system architecture and ultra-fast processing, audiences won’t see the motion blur typical of the giant screen experiences. These projectors deliver artifact-free images in 2D and 3D, which adds to the already heightened sense of realism Christie RealLaser™ illumination creates.
Key features

Ultra-fast processing with HDMI 2.0 and 4x 12GB SDI inputs for 1.06G pixels per sec

Enhanced Wavelength Diversity (EWD) – uses MPD technology to improve image quality on all screen types

Over 50,000 hours of stable DCI brightness

Capable of playing back incredibly high bit-rate content up to 4K120

Tool-free filter replacements and fully sealed optics for protection against dust-ingress

Best-in-class operational efficiency – 12.4 lumens per watt

Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>CP4455-RGB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brightness</td>
<td>nominal Up to 57,000 lumens with HB lens, 42,000 lumens with UHC lens' lifetime &gt;50,000 hours'</td>
</tr>
<tr>
<td>Screen size</td>
<td>114 feet (34 meters)</td>
</tr>
<tr>
<td>Contrast ratio</td>
<td>Up to 6000:1 sequential with UHC lens, 2000:1 with standard high brightness lens</td>
</tr>
<tr>
<td>Supported frame rates</td>
<td>2D up to 120fps, 3D up to 60fps / eye</td>
</tr>
<tr>
<td>Digital micromirror device</td>
<td>1.38” Enhanced 4K 3-chip DLP Cinema® *4096 x 2160 (4K)</td>
</tr>
<tr>
<td>Color gamut</td>
<td>native gamut &gt;95% of Rec.2020 coverage</td>
</tr>
<tr>
<td>Processing electronics</td>
<td>Christie® CineLife+™ Series (Series-2 IMB compatible)⁵ • HDMI 2.0 x2 • 4K120 fps¹ • 1G Ethernet x1 • 12G SDI x 4 • DisplayPort 1.2 x2 • Remote UI • Electronic Color Convergence (ECC)</td>
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<tr>
<td>Lens mount configuration</td>
<td>Fully motorized Intelligent Lens System (ILS™)</td>
</tr>
<tr>
<td>Lenses</td>
<td>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</td>
</tr>
<tr>
<td>Power consumption</td>
<td>4630W including chiller, max DCI brightness, @25°C 15,790 BTU/hr</td>
</tr>
<tr>
<td>Power input requirements</td>
<td>• 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</td>
</tr>
<tr>
<td>Laser class</td>
<td>Class 1 – Risk Group 3</td>
</tr>
<tr>
<td>Noise level</td>
<td>&lt;70 dBA @ 25°C</td>
</tr>
<tr>
<td>Dimensions (w/o lens) size (LxWxH)</td>
<td>Projector head: 61.1 x 28.0 x 22.0” (1551.1 x 710.6 x 559.6mm) • Projector pedestal: 53.9 x 29.8 x 29.1” (1369.8 x 756.0 x 739.4mm)</td>
</tr>
<tr>
<td>Weight</td>
<td>Projector head: 368lbs (167kg)</td>
</tr>
<tr>
<td>Accessories</td>
<td>• Rack mount pedestal • 50Hz chiller • 60Hz chiller • Chiller setup kit plumbing • Coolant¹ • Chiller setup kit ducts</td>
</tr>
</tbody>
</table>

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

Discover more

Christie CP4455-RGB datasheet
Key features and specifications of the CP4455-RGB digital cinema projector

Christie rental mode program
Create new opportunities with rental mode. Available on CineLife and CineLife+ projectors
MYSTIQUE CINEMA

PLF auditoriums | Super-bright 2D/3D presentations | Perfect dual-projection alignment

Christie Mystique™ Cinema is a fully built-in dual-projection integration kit for DCI-compliant cinema projectors. This auto-calibrating image alignment software and camera kit easily aligns images from both projectors within seconds for a completely seamless image on your largest screens. Purchase Mystique Cinema with either 2K or 4K Christie CineLife™ or CineLife+™ cinema projectors or as a standalone integration kit for existing projectors. It’s cost-effective with low upfront costs and no ongoing revenue sharing to worry about. Delivering unmatched brightness, clarity, and superior 2D and 3D images.
CINELIFE IMB SOLUTION

Alternative content  |  Content management and storage  |  Post-production

The CineLife™ IMB solution is made up of the Christie® IMB-S3, a fully-integrated media block, and the Christie NAS-S3, a dedicated network attached storage device. The Christie IMB-S3 converts and delivers packaged feature film content within a secure, DCI-compliant environment and a tightly integrated SMS through the projector UI for a seamless operational experience. The NAS-S3 provides a dedicated, 8TB (upgradable to 32TB) enterprise-grade storage solution in a slim (1RU) rack mountable enclosure. With MPEG-2 support, this solution gives you the freedom to display a larger variety of advertising or alternative content without adding additional hardware.
When they leave the cinema, when the talk is of performances and action sequences, few will speak of image quality. Few will notice. Yet image quality, consistent high brightness and contrast, high resolution, wide color gamut, high frame rate, and resolution is why they did not stream it at home.

And why - when the next not-to-be-missed, Oscar nominated release comes around – they won’t wait to see it at home. They’ll want this to be the best film they’ve ever seen – they’ll want to see it at its best; they’ll want an occasion. They’ll want cinema. That’s why image quality is important, not for dull technical reasons or artistic purity, but because it lifts cinema into a special place that other ways of watching movies cannot reach.

As RGB laser becomes mainstream that gap will widen further. Christie RGB laser projection already exceeds the DCI-P3 color standard and approaches Rec. 2020, giving filmmakers new palettes and audiences new perspectives. Our ability to put more light where it’s needed makes 3D more than a mere novelty. Our contrast ratios make details leap from the screen. Our light sources are consistent high performers – 30,000 hours to 80% brightness.

And now the CineLife Series with Christie RealLaser™ illumination. Their RGB pure laser light needs no external cooling; they are cost-effective and easy for exhibitors to install. So now even more audiences can experience RGB laser projection. And have even less reason to stay home.

What’s the most damning review of any film any cinemagoer can give today? ‘I could have watched that at home.’
“Let us weave a garland of pearls made of the teardrops. Color the pearls with the colors of the iris...”

Paheli, Directed by Amol Pelekar, 2005
LAMPS

Christie Xenolite lamps set high levels of performance – with a wide choice of both brightness and power levels, which makes them ideal for many screen sizes and for both new and existing theatres.
“HOYTS uses Christie lamps exclusively across our circuit because they deliver unmatched performance and reliability. We endeavor to deliver the best possible visual experience in every session and we wouldn’t trust any other brand of lamp in our Christie projectors.”

Adam Wrightson, General Manager – HOYTS Cinema Technology Group

The true strength of these lamps comes from their unrivalled brightness and color reproduction audiences love. And a longevity and reliability that lowers your total cost of ownership.

Our Superior Performance and Ultimate Performance Xenolite® lamps provide increased brightness and 30% longer life than comparable Xenon lamps and still have 99.999% in-theatre uptime. They boast less brightness drop-off, lower power requirements, and less frequent replacements.

And you get a better illumination source, one perfectly matched to digital cinema’s needs and capable of reliably producing captivating 2D and 3D experiences with exceptional color fidelity.

All of which means we can offer longer, more comprehensive warranties – giving you more life from each lamp and your audience the experience of seeing cinema the way it’s meant to be seen.
LAMPS

Cinema/exhibition  |  Post-production  |  On-screen advertising
Digital film mastering  |  Multi-media theatrical productions

Not ready for RGB pure laser?
That’s okay. With over 65,000 Christie Xenon cinema projectors still in use today, we continue to invest in improving the illumination technology behind your investments. Brighter for longer until you’re ready to transition to a Christie Real|Laser solution!
Learn more at: lamptolaser.com

Optimize your digital cinema system with the right Christie combination. Select from a suite of Christie Xenolite® lamps to lower operating costs, increase light output and efficiency, and save maintenance costs. Christie Xenolite lamps provide 99.999% reliability. And we back our lamps and projectors with excellent warranties for even more security.

Our Superior Performance (SP) and Ultimate Performance (UP) Xenolite lamps are not only brighter, they last much longer than comparable Xenon lamps while still offering the same extraordinary 99.999% in-theater uptime.
Optimize your digital cinema system by pairing the right lamp and projector. Select from a suite of Christie Xenolite lamps to increase light output and efficiency and save on maintenance costs. Xenolite lamps in Christie projectors provide 99.999% reliability and are backed by excellent warranties for even more security.

**SOLARIA AND CINELIFE/+ SERIES**

**CP2308**

- Designed for seamless use with our cinema projectors, Xenolite lamps provide high output and brightness in a cost-efficient, high-performance package.

**CP2215/CP2415-Xe**

- High-performance Xenolite lamps are the best option for illuminating your CP2215 digital cinema projector and are designed to deliver mission-critical reliability.

**CP2220/CP2420-Xe/CP4220/CP4420-Xe**

- Consistent quality, 99.999% proven uptime, longer lamp life and lower operating costs make Christie Xenolite lamps and cinema projectors a winning combination.

**CP2230/CP4230**

- Consistent quality, 99.999% proven uptime, longer lamp life and lower operating costs make Xenolite lamps and cinema projectors a winning combination.
Lamps/Xenolite

DESIGNED TO DELIVER ULTIMATE PERFORMANCE

<table>
<thead>
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<th>Xenolite lamps</th>
<th>CDXL-14M</th>
<th>CDXL-16M</th>
<th>CDXL-18SD</th>
<th>CDXL-19SC</th>
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<td>3,800/5,000 lumens (CP2308, CP2215, CP2415-Xe)</td>
<td>6,200/8,000 lumens (CP2308, CP2215, CP2415-Xe)</td>
<td>10,000 lumens (CP2215, CP2415-Xe)</td>
<td>7,000 lumens (CP2308)</td>
<td>7,000 lumens (CP2308)</td>
<td>12,000 lumens (CP2215, CP2415-Xe)</td>
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<td>1,600W</td>
<td>1,800W</td>
<td>1,900W</td>
<td>1,900W</td>
<td>2,000W</td>
<td>2,100W</td>
<td>2,100W</td>
<td>2,300W</td>
</tr>
<tr>
<td>rated current</td>
<td>73.5A</td>
<td>72A</td>
<td>75A</td>
<td>72A</td>
<td>77.7A</td>
<td>75A</td>
<td>80A</td>
<td>83.5A</td>
<td>85A</td>
</tr>
<tr>
<td>operating wattage range</td>
<td>1,000-1,430W</td>
<td>1,000-1,600W</td>
<td>1,260-1,800W</td>
<td>1,610-1,900W</td>
<td>1,610-1,900W</td>
<td>1,400-2,000W</td>
<td>1,610-2,100W</td>
<td>1,610-2,100W</td>
<td>1,610-2,300W</td>
</tr>
<tr>
<td>rated voltage</td>
<td>19.5V</td>
<td>22.2V</td>
<td>24.0V</td>
<td>26.3V</td>
<td>25V</td>
<td>26.5V</td>
<td>26.5V</td>
<td>25V</td>
<td>27.0V</td>
</tr>
<tr>
<td>horizontal</td>
<td>±5°</td>
<td>±5°</td>
<td>±5°</td>
<td>±5°</td>
<td>±5°</td>
<td>±5°</td>
<td>±5°</td>
<td>±5°</td>
<td>±5°</td>
</tr>
<tr>
<td>base surface temperature</td>
<td>200 C max</td>
<td>200 C max</td>
<td>200 C max</td>
<td>200 C max</td>
<td>200 C max</td>
<td>200 C max</td>
<td>200 C max</td>
<td>200 C max</td>
<td>200 C max</td>
</tr>
</tbody>
</table>

*Cost efficient. † For use only in CP2308 projectors. By following Christie’s Best Practices for Lamp Usage on pages 7-8 of this brochure, you can find out how to select the ideal lamp size to meet your projector and screen requirements. ‡ Exhaust extraction is optional. Extraction with the optional extraction duct requires 450 CFM.

Edition: CP2215/CP2415-Xe
“Wanda Cinemas are renowned across China for providing a very high-level of image quality and screen brightness, mainly thanks to Christie projectors and Xenolite lamps. We rely on the dependability and prolonged brightness of Xenolite lamps and trusted Christie projectors to provide the high standards our customers count.”

Jack Wang, CTO, WANDA Film Holding Co., Ltd.
HEAR THE DIFFERENCE

Where do you find the most carefully considered, technically brilliant, wholly immersive sound?

Probably not in concert halls, or even in recording studios. These days you’ll find it in cinemas.

Christie Vive Audio is a complete solution that’s been built for one purpose, to bring premium cinema sound to any theatre - and to any seat in any theatre.

It combines the superior performance of planar ribbon drivers with line array loudspeaker design and matches them with powerful Class D amplification to immerse audiences in the latest highly-detailed cinema audio formats.

It’s the ultimate cinema sound experience, and it’s been designed so that every seat will benefit from pure, directional, sound that makes movies come alive.

Cinema audio is not rock and roll audio and it’s not concert hall audio. It has a very different purpose; one that perhaps only a company fully immersed in the business of making and delivering movies fully appreciates.
“Show these gentlemen to the best seat in the house…”

*Un monstre à Paris.* Directed by Bibo Bergeron, 2011
Which is faster? Sound or light? The unexpected answer – in the human brain at least - is sound. Your brain reacts to sound in point-zero-five seconds – It takes it four times that to react to light.
Even though we think of vision as our primary sense, hearing is equally but subtly just as important. It once kept us safe from tigers in the dark, it’s still the sense we rely on first when interpreting the world. Or a movie.

Evolution has seen to that. And that has huge implications for cinema. It means cinema sound isn’t just about clear dialogue and subwoofer explosions. It isn’t secondary to what’s on screen, it’s what our brains are hard-wired to process first. Watching films has more to do with listening than anyone ever imagines; in many ways sound extends film beyond the screen, it’s the true third dimension. And that’s what makes Vive Audio so important.

Christie Vive Audio certainly makes dialogue clear and explosions rumble - and does so very well. But its real genius is that it does so for every audience member in every seat, front row to back, side aisle to center. It leaves no blank spots, no missing moments, everyone gets the film they paid for, the full story, fully delivered, just how the director intended.

Achieving this means using some advance audio techniques. We use ribbon driver technology because, unlike compression drivers, their low mass reacts instantly to audio signals. Clarity is enhanced, distortion is much lower, transient responses are ultra fast, and there’s no high-frequency breakup. Everything sounds more natural.

It’s also why we use Vive Audio cinema amplifiers to complement the high-performance features of those ribbon drivers. High-power output and efficiency for dynamic, detailed sound.

Finally, our line array loudspeakers, known for their coverage and directionality deliver every decibel. To every customer. In every seat.
LA SERIES

Small- to medium-screen auditoriums | Immersive | Premium large format | Event cinema | Screening rooms

Advanced loudspeakers that are the ideal platform for today’s immersive cinema audio applications. Comprising line array, surround and ceiling surround loudspeakers, the LA Series can be configured to support all DCI-specified distributed and immersive audio formats. And you can combine certain models with our S115 or S215 subwoofers to create full-range screen channel systems or corner surrounds.

Discover more

LA Series brochure
Key features and specifications of the Vive Audio LA Series loudspeakers

Psychoacoustic proximity effect of line array systems whitepaper
Read how this phenomenon enables audiences to experience a truly immersive audio visual environment
### Key features

- **Planar ribbon driver technology** ensures perfect timbre-matching across the lineup
- **Dramatically higher RMS to peak max**
- **SPL ratio than compression driver systems**
- **Approximately four times the optimal listening area than typical systems**
- **Meets a minimum 5:1 safety rating for installation**
- **Versatile installation capabilities with a variety of M8 and M10 fittings**
- **Backed by a limited 5-year warranty**

### Line array loudspeakers

<table>
<thead>
<tr>
<th>Model</th>
<th>Specification</th>
<th>Model</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>LA1</td>
<td>145-106108-03</td>
<td>LA3i</td>
<td>145-013105-01</td>
</tr>
<tr>
<td>LA4</td>
<td>145-120104-01</td>
<td>LA5</td>
<td>145-122106-01</td>
</tr>
</tbody>
</table>

- **System type**: Fixed arcuate ribbon driver line array, 2-way, passive, in a single sealed enclosure
- **Driver components**
  - **LA1**: HF: 9 x 3.5” with Kapton® diaphragm and Neodymium magnets, MF: 6 x 5.25” paper/ Kevlar composite mid-bass cone drivers
  - **LA3i**: HF: 12 x 3.5” with Kapton diaphragm and Neodymium magnets, MF: 8 x 5.25” paper/ Kevlar composite mid-bass cone drivers
  - **LA4**: HF: 8 x 6.5” with Neodymium magnets, MF: 8 x 6.5” paper/ Kevlar composite mid-bass cone drivers
  - **LA5**: HF: 12 x 6” with Neodymium magnets, MF: 12 x 6.5” paper/ Kevlar composite mid-bass cone drivers

- **Maximum SPL**
  - **LA1**: 123dB SPL continuous, 135dB SPL peak
  - **LA3i**: 127dB SPL continuous, 128.8dB SPL peak
  - **LA4**: 131dB SPL continuous, 143dB SPL peak
  - **LA5**: 131dB SPL continuous, 143dB SPL peak

- **System coverage**
  - **LA1**: 120° horizontal / 30° vertical dispersion
  - **LA3i**: 100° horizontal / 40° vertical dispersion
  - **LA4**: 120° horizontal / 40° vertical dispersion
  - **LA5**: 120° horizontal / 50° vertical dispersion

Performance specifications are typical. Due to constant research, specifications are subject to change without notice.

---

### Line array loudspeakers

Make every seat in the house the best seat. Line array loudspeakers are renowned for their ability to produce superior coverage and directionality meaning your customers benefit from impeccably detailed audio no matter where they sit in the auditorium.

### Typical listening area comparison

[Diagram showing typical listening area comparison between compression driver loudspeaker and Christie ribbon driver line array loudspeaker]
## Surround loudspeakers

<table>
<thead>
<tr>
<th>System type</th>
<th>Coaxial parabolic ribbon driver line array, 2-way, passive, in a single ported enclosure</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Driver components</strong></td>
<td><strong>Maximum SPL</strong></td>
</tr>
<tr>
<td>HF: 6 x 3.5&quot; with Kapton® diaphragm and Neodymium magnets&lt;br&gt;MF: 4 x 5.25&quot; paper/Kevlar composite mid-bass cone drivers</td>
<td>119.6dB SPL continuous, 131dB SPL peak</td>
</tr>
<tr>
<td>HF: 4 x 6&quot; with Kapton diaphragm and Neodymium magnets&lt;br&gt;MF: 4 x 6.5&quot; paper/Kevlar composite mid-bass cone drivers</td>
<td>119.6dB SPL continuous, 131dB SPL peak</td>
</tr>
<tr>
<td>HF: 12 x 3.5&quot; with Kapton diaphragm and Neodymium magnets&lt;br&gt;MF: 8 x 5.25&quot; paper/Kevlar composite mid-bass cone drivers</td>
<td>124.5dB SPL continuous, 136.5dB SPL peak</td>
</tr>
<tr>
<td>HF: 8 x 6&quot; with Kapton diaphragm and Neodymium magnets&lt;br&gt;MF: 8 x 6.5&quot; paper/Kevlar composite mid-bass cone drivers</td>
<td>130dB SPL continuous, 142dB SPL peak</td>
</tr>
<tr>
<td>HF: 12 x 6&quot; with Kapton diaphragm and Neodymium magnets&lt;br&gt;MF: 12 x 6.5&quot; paper/Kevlar composite mid-bass cone drivers</td>
<td>131dB SPL continuous, 143dB SPL peak</td>
</tr>
</tbody>
</table>

### Ribbon driver technology

Extremely low in mass, ribbon drivers react instantaneously to audio signals providing greatly enhanced clarity, dramatically reduced distortion, and ultra-fast transient response, eliminating the effects of high-frequency breakup and power compression. Speech, effects, music, and alternative content sound more natural and lifelike for an enhanced listening experience that audiences notice.
Premium cinema sound

Christie Vive Audio™ LA Series loudspeakers feature extremely fast transient response times thanks to low-mass planar ribbon driver technology. This eliminates the effects of high-frequency breakup and power compression while delivering dramatically reduced distortion, enhanced intelligibility, and high dynamic range for the most accurate reproduction of the original source material.
LS SERIES
Small-to-medium-screen auditoriums | Immersive | Post-production | Boutique cinema | Screening rooms

Cost-effective cinema line source loudspeakers that provide accurate reproduction of high dynamic range and high resolution DCI-specified audio for small-to-medium sized theatres. With advanced planar ribbon driver technology, the LS Series includes four-way screen channel systems with dual planar ribbon tweeters and two-way surround channel loudspeakers.

Discover more

LS Series brochure
Key features and specifications of the Vive Audio LS Series loudspeakers

Advantages of Christie Vive Audio planar ribbon driver and line array technologies for cinema sound whitepaper
Find out which technology building blocks form the best foundation for the accurate reproduction of today’s leading audio formats
Key features

Planar ribbon drivers provide better RMS-to-peak max SPL ratio than compression driver systems for enhanced voice intelligibility, superb sonic balance and less distortion.

High-efficiency design enables the use of lower power amplifiers – for overall cost-savings.

Acoustically isolated and extensively damped to minimize driver interaction and enhance small-level signal resolution.

Rotatable MF-HF waveguides on screen channel loudspeakers increase installation options.

Higher resolution audio and dynamic range reproduction than standard cinema audio loudspeaker systems.

Sophisticated crossover design with frequency shading technology and optimized acoustic integration of transducers provide a wide horizontal dispersion and controlled vertical dispersion pattern.

Backed by a limited 5-year warranty.

Screen channels

<table>
<thead>
<tr>
<th>System type</th>
<th>LS1 145-170109-01</th>
<th>LS2 145-172101-01</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driver components</td>
<td>HF: high output 2 x 3” planar ribbon with Kapton® diaphragm and Neodymium magnets</td>
<td>HF: high output 6” and 3” planar ribbon with Kapton diaphragm and Neodymium magnets</td>
</tr>
<tr>
<td></td>
<td>MF: 6.5” paper/Kevlar high efficiency midrange with 38mm edgewound voice coil</td>
<td>MF: 6.5” paper/Kevlar high efficiency midrange with 51mm edge wound voice coil</td>
</tr>
<tr>
<td></td>
<td>LF: 15” paper composite cone driver with 100mm diameter voice coil</td>
<td>LF: 2 x 15” paper composite cone driver with 100mm diameter voice coil</td>
</tr>
<tr>
<td>Maximum SPL</td>
<td>123dB SPL continuous, 126dB SPL peak</td>
<td>126.5dB SPL continuous, 129dB SPL peak</td>
</tr>
<tr>
<td>System coverage</td>
<td>100° horizontal / 40° vertical dispersion</td>
<td></td>
</tr>
</tbody>
</table>
**Surround loudspeakers**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Driver Components</th>
<th>Maximum SPL</th>
<th>System coverage</th>
</tr>
</thead>
<tbody>
<tr>
<td>LS1S</td>
<td>145-171100-01</td>
<td>HF: 3.5&quot; planar ribbon driver with Kapton® diaphragm and Neodymium magnets</td>
<td>114dB SPL continuous, 117dB SPL peak</td>
<td>100° horizontal / 50° vertical dispersion</td>
</tr>
<tr>
<td>LS2S</td>
<td>145-173102-01</td>
<td>HF: 3&quot; planar ribbon driver with Kapton diaphragm and Neodymium magnets</td>
<td>116.5dB SPL continuous, 119dB SPL peak</td>
<td>100° horizontal / 50° vertical dispersion</td>
</tr>
<tr>
<td>LS5S</td>
<td>145-175104-01</td>
<td>HF: 3&quot; planar ribbon driver with Kapton diaphragm and Neodymium magnets</td>
<td>121dB SPL continuous, 123dB SPL peak</td>
<td>100° horizontal / 50° vertical dispersion</td>
</tr>
<tr>
<td>LS2C</td>
<td>145-186106-01</td>
<td>2&quot; annular ribbon HF driver with Kapton diaphragm, Neodymium magnets and 1.2&quot; exit coaxially mounted within 12&quot; paper Kevlar composite cone driver</td>
<td>130dB SPL continuous, 142dB SPL peak</td>
<td>100° spherical cone</td>
</tr>
</tbody>
</table>

**Ceiling surround loudspeakers**

**System type**
Coaxial parabolic ribbon driver line array, 2-way, passive, in a single ported enclosure

**Cost-effective, high-performance cinema audio**

Featuring planar ribbon drivers, Vive Audio® LS Series provides dramatically higher RMS-to-peak max SPL ratio than compression drivers, improving performance and intelligibility. Rotatable waveguides, slim enclosures, and multiple mounting options make the LS Series easy to discreetly install into any space-constrained auditorium.
S SERIES

Mainstream cinema | Immersive auditoriums | Post-production | Premium large format | Screening rooms

Christie Vive Audio® S Series subwoofers offer low distortion, low power compression, and minima turbulence to deliver extended low frequency response at extremely high output levels for powerful and deep bass. S118LP and S218LP models are engineered for the reproduction of Low Frequency Effects (LFE). Combine the S115 and S215 with our LA Series loudspeakers to create full-range audio systems that can be used as screen channels or as corner surrounds for bass management. Integrated fly points offer installation flexibility.

Discover more

S Series brochure
Key features and specifications of the Vive Audio S Series subwoofers

Cinema audio: How new technologies are helping realize DCI audio specifications whitepaper
An integrated systems approach can enable cinemas to realize the potential of the DCI audio soundtrack
<table>
<thead>
<tr>
<th></th>
<th>S115</th>
<th>S215</th>
<th>S118LP</th>
<th>S218LP</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Application</strong></td>
<td>Bass management</td>
<td>Bass management</td>
<td>Low frequency effects</td>
<td>Low frequency effects</td>
</tr>
<tr>
<td><strong>System type</strong></td>
<td>Subwoofer, ported enclosure, with EBS tuning</td>
<td>Subwoofer, ported enclosure, with EBS tuning</td>
<td>Subwoofer, ported enclosure, with EBS tuning</td>
<td>Subwoofer, ported enclosure, with EBS tuning</td>
</tr>
<tr>
<td><strong>Driver components</strong></td>
<td>1 x 15&quot; low frequency driver with dual 4&quot; voice coils and long linear excursion</td>
<td>2 x 15&quot; low frequency drivers each with dual 4&quot; voice coils and long linear excursion</td>
<td>1 x 18&quot; low frequency driver with dual 4&quot; voice coils and long linear excursion</td>
<td>2 x 18&quot; low frequency drivers each with dual 4&quot; voice coils and long linear excursion</td>
</tr>
<tr>
<td><strong>Frequency response</strong></td>
<td>27-300Hz @ -10dB 30-250Hz @ -6dB</td>
<td>27-300Hz @ -10dB 30-250Hz @ -6dB</td>
<td>20-250Hz @ -10dB 24-200Hz @ -6dB</td>
<td>20-250Hz @ -10dB 24-200Hz @ -6dB</td>
</tr>
<tr>
<td><strong>Maximum SPL</strong></td>
<td>125dB SPL continuous, 137dB SPL peak</td>
<td>131dB SPL continuous, 143dB SPL peak</td>
<td>127.5dB SPL continuous, 139.5dB SPL peak</td>
<td>133.5dB SPL continuous, 145.5dB SPL peak</td>
</tr>
<tr>
<td><strong>Sensitivity</strong></td>
<td>1W/1m: 97dB (40-150Hz)</td>
<td>1W/1m: 100dB (40-150Hz)</td>
<td>1W/1m: 97dB (40-150Hz)</td>
<td>1W/1m: 100dB (40-150Hz)</td>
</tr>
<tr>
<td><strong>Power handling</strong></td>
<td>600W (AES) continuous 1200W (IEC) short term</td>
<td>1200W (AES) continuous 2400W (IEC) short term</td>
<td>1000W (AES) continuous 2000W (IEC) short term</td>
<td>2000W (AES) continuous 4000W (IEC) short term</td>
</tr>
<tr>
<td><strong>Rated impedance</strong></td>
<td>8 ohms</td>
<td>4 ohms</td>
<td>8 ohms</td>
<td>4 ohms</td>
</tr>
</tbody>
</table>

**Key features**

- High cubic displacement cabinet, heavily cross-braced, ported and tuned
- Extra-large port area with rounded edges for minimal air turbulence noise
- Backed by a limited 5-year warranty
- Each driver has a discrete, internal ported enclosure for optimal performance
- S115 and S215 models are overhead rated for safe installs and use integrated fly points
POWERSOFT AMPLIFIERS

Mainstream cinema | Immersive auditoriums | Post-production | Premium large format

Class D 2000W → 7500W 2CH 4CH 8CH

Drawing from Powersoft’s pioneering developments, the Duocanali and Quattrocanali amplifiers offer truly amazing sound quality and pair exceptionally well with our Vive Audio® loudspeaker range. Featuring the latest advances in switched-mode technology, Class-D design, and high-power capabilities, these class-leading, energy-efficient amplifiers also feature numerous developments including Smart Rail Management technology, which helps lower overall power consumption in a compact 1RU chassis design.

Discover more

- **Quattrocanali Series**
  Key features and specifications of the Quattrocanali Series

- **Duecanali Series**
  Key features and specifications of the Duecanali Series

- **Cinema audio: How new technologies are helping realize DCI audio specifications whitepaper**
  An integrated systems approach can enable cinemas to realize the potential of the DCI audio soundtrack
## Amplifiers

<table>
<thead>
<tr>
<th></th>
<th>DUECANALI 4804</th>
<th>QUATTROCANALI 1204</th>
<th>QUATTROCANALI 2404</th>
<th>QUATTROCANALI 4804</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>145-051118-XX</td>
<td>145-048114-XX</td>
<td>145-045111-XX</td>
<td>145-042118-XX</td>
</tr>
<tr>
<td><strong>Output power per channel</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3000W @ 2 Ω</td>
<td>400W @ 2 Ω</td>
<td>800W @ 2 Ω</td>
<td>1500W @ 2 Ω</td>
<td></td>
</tr>
<tr>
<td>2400W @ 4 Ω</td>
<td>300W @ 4 Ω</td>
<td>600W @ 4 Ω</td>
<td>1200W @ 4 Ω</td>
<td></td>
</tr>
<tr>
<td>1250W @ 8 Ω</td>
<td>300W @ 8 Ω</td>
<td>600W @ 8 Ω</td>
<td>1200W @ 8 Ω</td>
<td></td>
</tr>
<tr>
<td><strong>Bridge mode</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6000W @ 4 Ω</td>
<td>800W @ 4 Ω</td>
<td>1600W @ 4 Ω</td>
<td>3000W @ 4 Ω</td>
<td></td>
</tr>
<tr>
<td>4800W @ 8 Ω</td>
<td>600W @ 8 Ω</td>
<td>1200W @ 8 Ω</td>
<td>2400W @ 8 Ω</td>
<td></td>
</tr>
<tr>
<td><strong>Max unclipped output voltage @ 8 Ω Bridge mode</strong></td>
<td>142V peak</td>
<td>70V peak</td>
<td>100V peak</td>
<td>139V peak</td>
</tr>
<tr>
<td><strong>Current</strong></td>
<td>80A peak</td>
<td>33A peak</td>
<td>45A peak</td>
<td></td>
</tr>
<tr>
<td><strong>Power supply</strong></td>
<td>Universal, regulated switch mode with Power Factor Correction (PFC)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Nominal power requirement</strong></td>
<td>100-240V +/- 10%, 50-60Hz</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Operating voltage</strong></td>
<td>60V - 264V</td>
<td>90V - 264V</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Power consumption</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| **Idle** | 1115V: 30.3W - 0.34A  
230V: 31.0W - 0.32A | 115V: 31.0W - 0.45A  
230V: 31.8W - 0.26A | 115V: 31.0W - 0.45A  
230V: 31.8W - 0.26A |
| **1/8 of max power @ 4 Ω** | 115V: 777W - 7.0A  
230V: 753W - 3.9A | 115V: 227W - 2.1A  
230V: 251W - 1.4A | 115V: 406W - 2.1A  
230V: 438W - 2.39A |
| **Operating temperature range** | 32-113 F (0-45 C) |
| **Thermal dissipation** |                |                    |                    |                    |
| **Idle** | 115V: 103 BTU/h  
230V: 106 BTU/h | 115V: 107 BTU/h  
230V: 109 BTU/h | 115V: 107 BTU/h  
230V: 109 BTU/h |
| **1/8 of max power @ 4 Ω** | 0115V: 606 BTU/h  
230V: 522 BTU/h | 115V: 262 BTU/h  
230V: 345 BTU/h | 115V: 361 BTU/h  
230V: 361 BTU/h |

### Key features

- **Universal switch-mode power supply up to 4000VAC tolerant with Power Factor Correction**
- **Fixed frequency switch-mode output stage for high-grade sound accuracy**
- **Fully protected circuit design with thermal protection**
- **Standard Phoenix® connectors: analog audio outputs, aux supply, alarms, and GPIO**
- **Easy to set up - User-selectable gain/sensitivity with digital gain-attenuator control, built-in defeatable clip limiters and gate selection per channel**
- **Compact 1RU size for reduced rack cost and space**
- **VHF protection - protects loudspeakers against non-audible, strong, non-musical high frequency signals**
PREMIUM LARGE FORMAT

When the Lumière Brothers began, cinema was a novelty and that was its purpose. It may since have grown from a fairground attraction in a sideshow tent to stand tall among the arts; but showmanship remains inescapably part of Cinema’s DNA.

It no longer relies on fairground barkers and colored balloons to attract an audience - studios may prefer to put actors on chat show sofas - but that's showmanship.

Which is probably why much cinema innovation is initially dismissed as nothing more than a showman’s novelty. Because it once was; the Talkies were seen as a novelty that couldn’t last, Color was a pretty irrelevance. CGI was for teenagers and geeks. Yet they all lasted. And they lasted for reasons every showman knows. They lasted because they offered something audiences wanted. They had an appeal beyond novelty.

Is Premium Large Format Cinema a non-novelty? Will it last? We rather believe it will. We think it passes the showman’s test. Because going to the Cinema is an active choice.

And this is where PLF scores, because once the choice to go is made, others naturally follow. Shall we invite friends? Shall we eat first? Where will we sit? Why don’t we pay a little extra for better seating, premium picture quality, and sound, why don’t we make it special?

Christie has been waving its own set of colored balloons in PLF’s favor for some time now, producing and championing the tech to make it happen - with Christie RealLaser™ projection illumination and with Vive Audio systems to complement the premium visuals with premium sound. Projectors with RealLaser™ are cost-effective, energy efficient, and easy to install in new sites and existing booths.

Even before the main feature starts, we have the digital display technology to create exciting lobbies, immersive corridors, and – most important of all – the knowledge to make it all come together in a package audiences want.

In every cinema manager, every exhibitor, is a showman’s heart and instincts. Ours say PLF is a differentiator that’s here to stay.
“The audience thirsts for adventure.”
Rango. Directed by Gore Verbinski. 2011
SUPPORT

What happens when something happens? Today’s cinema technology may be reliable, more reliable than it has ever been, but support still matters.
Indeed, it matters more than ever. We know our exhibitors’ business models are built to leverage the high reliability and long life of our products.

That’s why Christie support is so comprehensive and far-reaching. It’s there for far more than peace-of-mind, it’s there to keep your business wheels turning and your revenue streams flowing should the unexpected ever happen.

And it’s there to stop the unexpected happening; with planned maintenance and remote system diagnosis, with defined test schedules and comprehensive training programs.

Widely recognized to be industry-leading, our lead in support is partly due to the way we resource globally but deliver locally. It gives you the back-up of a world-wide brand, a local office that speaks your language and the response times to match.

So when something does happen, what happens next is as predictable, professional – and every bit as world-class – as our products.

“At Christie, we know that there are many variables that affect a typical installation, so we leverage our decades of experience to be a part of your solution from the beginning.”

Judson Cross, Sr. Manager, Solutions Development
Christie® Professional Services is one of the industry’s most trusted advisors in designing, building, deploying, and supporting commercial AV display systems. Over 90 years of experience in advanced display technology has given us deep insights to ensure the smooth delivery of your project within the most complex environments.

**Premium comprehensive services**

**Design and installation services**
Transcend your guest’s audio-visual expectations with help from our experienced design team. They can create an environment that not only goes beyond your expectations but ensures it’s cost-effective. Some of what we help you do:

- Design your space to attract more customers.
- Install and calibrate your projector to ensure undisputed picture quality.
- Install and calibrate your audio system for a premium immersive experience where every seat’s in the sweet spot.

**Monitoring and support services**
Get the support you need from the people who know your equipment best! No matter the time, day or night, 365 days a year, our world-class Network Operations Centers (NOC) are here to help you troubleshoot, schedule preventative maintenance, and deploy our field team for onsite repair. We also provide remote monitoring and management, integration, staging, and logistics services.

**People, process, technology – every step of the way**
Every aspect of your display system gets our attention and support. We handle everything from technical design to procuring the right mix of media players, software, and integrated technologies for your digital networks. We also monitor and manage equipment and systems in real-time and provide on-site service, complete logistics, and parts support when needed.

As an industry-leading technology provider, we offer:

- Partnerships with business leaders so you crystallize your project goals and identify challenges and opportunities to deliver a high commercial-value solution.
• Tailored service options designed to fit your unique requirements and budget.
• Consistent global services through a single point of contact. From simple repairs to end-to-end support, all your locations can access almost immediate event resolution expertise.
• Global leadership in technical AV expertise, including the infrastructure, multi-platform and multi-vendor technology skills you need.
• Quick, accessible, reliable support.
• Remote service and automated cloud-based and mobile options to help speed up problem solving and control your IT infrastructure support costs.
• Proactive monitoring and event notifications that help minimize theatre disruptions.
• Locally stocked parts for speedy parts replacement.
• Training and certification.
• Proof of potential cost-savings with our data, analytics, and reporting capabilities.

Christie Professional Services is built on a responsive, customer-oriented model that streamlines trouble ticket flow and significantly improves support accountability. Our world-class NOC facility carries out daily operations and communications, including service desk, field services, remote monitoring and management, integration, staging, and logistics.

Help desk staffed by Christie employees
Call on Christie and you won’t hear a call center script. Our help desk is staffed by experienced Christie engineers with in-depth knowledge of our products and Pro-AV applications.

Remote monitoring and management
For every product that supports remote monitoring, we can connect to your system online or via mobile device to configure systems and resolve issues remotely before they impact your operations.

On-site maintenance and repair
Our work records and site histories give us the detail we need to quickly diagnose current and future issues.

Emergency field service
If we can’t resolve your issue remotely, we electronically dispatch it to the appropriate field engineer within the time frame of our service level agreement (SLA).

Out-of-warranty parts
To prolong the life of your equipment, our parts service program provides concierge-level support and complete system protection for Christie and third-party products beyond the standard warranty period.

Critical inventory logistics
Our critical inventory logistics program puts parts inventory on hold at all branch offices and authorized service centers. With managed parts depot support, we process 95% of all RMAs and ship replacements within 24 hours.

Electronic RMA
With a single call to our help desk, you can generate a claim form and authorize it electronically to receive replacement parts.

Training and certification
We’ve got you covered with free online webinars and training sessions to help increase your Christie product knowledge and earn CTS-RU credits. We also offer classroom training at our facilities, or, for a fee, we can come to you.

Partner portal
Through our secure, password-protected site, you can access a wealth of online technical resources for both active and discontinued products such as user and service manuals, CAD drawings, Revit files, communication protocols, instruction sheets, calculators, design tools, demo source material, software, and firmware downloads.

Global and local support
We believe industry-leading support should be resourced globally, delivered locally, and secured through an unwavering commitment to training. We equip all our offices with technical facilities and offer full support services in local languages.

About warranty coverage
Our standard limited warranty is the foundational service agreement for all Christie products and covers replacement of and service for critical parts and accessories. For enhanced support and complete professional services, we also offer extended warranties. We’ll work with you to protect your investment beyond the standard warranty and tailor agreements to your unique requirements.
WARRANTY COVERAGE

Our standard limited warranty, the foundation service agreement for all Christie products, covers replacement of and service for critical parts and accessories. For enhanced support and complete managed services, Christie offers extended warranties. We’ll work with you to protect your investment beyond the standard warranty, tailoring agreements to your unique requirements. Check the status of your Christie warranty any time.
The Christie NOC, where experienced technicians track tens of thousands of our customers’ visual displays, all day, every day.
HOW CAN WE HELP YOU TODAY?

Nobody likes cinemas that Go Dark; nothing is more frightening or costly. Downtime is not an option; it damages your reputation and your revenue.

So, while it would be possible to send Christie products out into the world alone - they have been designed and engineered to exacting standards - that’s not the Christie way. The Christie way is to be there when you need us, making sure that your show always goes on. That your investment in us is protected, that your theaters do not go dark.

That’s why our industry-leading support is globally resourced yet locally delivered. All our offices have world class technical facilities, yet your local office will speak your local language.

All this underpinned by a strong commitment to training and warranties – including a lamp warranty acknowledged to be the best in the business.

Taken individually these elements would be exceptional; but collectively our warranties, our support, and our training come together to form a support package unlike any other. It extends from standard warranties, through proactive plans, to our managed services that can predict and prevent problems.

It is this commitment to support, every bit as much as the illumination source, the design, and the electronics, that makes a Christie a Christie.

The ability to take cutting edge-technology and turn it into dependable, revenue generating, fully-supported real-world products in daily use in over 60,000 cinemas worldwide.
“What are you, scared of the dark?”

The Shawshank Redemption. Directed by Frank Darabont, 1994
1. Purchase and Sale

The purchase order will be subject to acceptance or rejection by Christie (acceptance may be evidenced in writing or by shipment of the Products). Upon acceptance of the purchase order by Christie, the Purchaser and Christie will be in a binding agreement for the purchase and sale of the Products and provision of Services on these terms and conditions (the “Agreement”).

2. Applicable terms and conditions

Nothing contained in any purchase order, sales confirmation or other document will modify this Agreement unless agreed to in writing by both parties.

3. Delivery and risk of loss

(a) Unless otherwise specified on the quotation, (i) shipments of the Products will be made EXW warehouse at such location as Christie may designate, Incoterms® 2010, (ii) all risk of loss or damage to, the Products will pass to the Purchaser when the Products are delivered by Christie to the carrier for shipment, and (iii) Purchaser will pay all freight and insurance charges, all duties, value added, sales, use, excise or similar taxes, and any and all costs or charges incurred after delivery of the Products to the carrier for shipment.

(b) Christie will not be liable in any respect for any loss or damage caused by any failure or delay in making delivery.

(c) Notwithstanding delivery and the passing of risk in the Products, or any other provision of these conditions, the title to the Products will not pass to the Purchaser until Christie has received in cash or cleared funds representing payment in full of the price of the Products and all other goods agreed to be sold by Christie to the Purchaser for which payment is then due.

4. Payment

(a) Unless otherwise specified on the quotation or agreed to in writing by both parties and subject to satisfactory credit approval, payment terms are net 30 days from the date of invoice and invoices may be sent at any time on or after shipment of the Products, or completion of the Services. All payments for Products and Services are payable in currency specified on the first page of this Agreement.

(b) If Purchaser fails to make payment in full by the due date then, without prejudice to any other rights or remedies available to Christie, Christie will be entitled to:

(i) charge the Purchaser interest on the unpaid portion of any invoice not paid in full when due at a rate equal to the lower of 1.5% per month (a part month being treated as a full month for the purpose of calculating interest) of the unpaid balance or the highest interest rate permitted under applicable law,

(ii) terminate and cancel any other agreements with the Purchaser, and

(iii) withhold warranty coverage contemplated by section 8.

5. Product specifications

The specifications of the Products are those set out in Christie’s catalog in effect from time to time. Christie reserves the right to make any changes in the specifications of the Products that are required to conform to any applicable laws or that do not materially affect the quality or performance of the Products.

6. Purchaser facility access (if applicable)

Where the Services require that the personnel of Christie or its subcontractors have access to the Purchaser’s facility, the Purchaser will provide such access and will provide such resources and items as may be reasonably necessary.

7. Acceptance, rejection, etc.

(a) Where the Services include installation of the Products by Christie, the Purchaser will be deemed to have accepted the Products upon certification by Christie to the Purchaser that the Products have been installed and are operating properly.

(b) Where the Services do not include installation by Christie, Purchaser will inspect all Products immediately upon delivery to the final shipping destination and will accept or reject the Products within 10 days after the date of delivery. Purchaser may only reject Products that are nonconforming goods or which are defective. Any failure to reject Products within such 10 day period will be deemed acceptance. Purchaser expressly waives any right Purchaser may have to revoke acceptance after the expiration of such 10 day period.

(c) Acceptance of Products by Purchaser will be without prejudice to any rights Purchaser may have under the warranty pursuant to section 8(a).

(d) No Products may be returned to Christie except in accordance with Christie’s return policy, which, among other things, requires that a return material authorization (RMA) number be obtained prior to returning any item to Christie.

8. Warranty

(a) Provided that the Purchaser has paid to Christie all amounts owing to Christie in payment for the Products and Services, the Products are warranted to Purchaser under Christie’s standard limited warranty, a copy of which will be provided by Christie upon request. Notwithstanding the foregoing, the standard limited warranty will not apply in respect of any defects arising from any design or specifications provided by the Purchaser.

(b) Except as expressly set forth in this agreement, Christie makes no other warranties whatsoever to Purchaser, and specifically disclaims all other warranties, whether written or oral, express, implied or statutory, including without limitation any implied warranty of merchantability, satisfactory quality, fitness for a particular use or purpose or noninfringement.

9. Limitation of liability

Under no circumstances will Christie be liable to Purchaser for any consequential, incidental, indirect, special or punitive damages, including without limitation damages for lost profits, lost revenues, lost business or loss of use of products, whether or not Christie is advised that such damages will or may occur, and whether such damages are claimed based on breach of contract, breach of warranty, negligence, strict liability in tort, or any other legal or equitable theory. No action, regardless of form, arising out of this agreement or the sale of products to purchaser may be brought against Christie more than one year after the date of accrual of the cause of action.

10. Indemnification by Purchaser

Purchaser will indemnify Christie, its affiliates, and their respective officers, directors, shareholders, employees, agents, legal representatives, successors and assigns from and against any claim, damage, liability, loss, cost, expense, obligation, action or cause of action arising out of any breach by Purchaser of its obligations under this Agreement or any negligent or willful misconduct of Purchaser. Purchaser’s obligations under this section 10 will survive the expiration or termination of this Agreement.

11. Infringement

(a) Christie will indemnify Purchaser and its officers, directors, shareholders, employees, agents, legal representatives, successors and assigns from and against any claim, damage, liability, loss, cost, expense, obligation, action or cause of action arising out of any actual or alleged infringement of any Products sold by Christie to Purchaser on any patent, trademark or copyright of any third party, provided that:

(i) Purchaser gives Christie prompt written notice of any third party claim which is or may be covered under this indemnity, and

(ii) Christie is given full power and authority to defend or settle any such third party claim.

(b) Purchaser may, by counsel of its own choosing and at its sole expense, participate in any legal proceeding or settlement relating to any matter as to which a claim is made by Purchaser under this indemnity.

(c) In the event of any infringement of any Products on any patent, trademark or copyright of any third party, Christie will, at its sole option and expense:

(i) modify the infringing item to make it non-infringing,

(ii) replace the infringing item with a non-infringing item with equal or better functionality,

(iii) procure for Purchaser the right to continue using the infringing item, or

(iv) if none of the above alternatives is commercially practical, refund the purchase price of the infringing item less depreciation computed on a three year straight-line basis.

(d) Christie will not have any liability under the indemnity set forth in section 11(a) for, and Christie will indemnify Christie, its affiliates, and their respective officers, directors, shareholders, owners, employees, agents, legal representatives, successors and assigns from and against any claim, damage, liability, loss, cost, expense, obligation, action or cause of action arising out of:

(i) compliance with the Purchaser’s designs, specifications or instructions,

(ii) modification of any Product by a party other than Christie,

(iii) the use of any Product in combination with any other product, or

(iv) the use of any Product in any manner which infringes a method or process patent.
excused from performance for so long as such cause continues. beyond the reasonable control of such party, such party will, except for payment obligations, be
by reason of war, civil disturbance, terrorism, fire, flood, earthquake, typhoon or other natural
If the performance of this Agreement or of any obligation hereunder by either party is prevented
Purchaser will comply with all applicable export control laws as in effect from time to time.
15. Export controls
Purchaser will comply with all applicable export control laws as in effect from time to time.
16. Force majeure
If the performance of this Agreement or of any obligation hereunder by either party is prevented
17. Enforcement
(a) If Purchaser fails to pay any amounts owing to Christie, Purchaser will reimburse Christie
for all collection costs and expenses, including without limitation reasonable legal fees,
incurred by Christie in collecting such amounts. In addition, if litigation is commenced by
either party in connection with this Agreement, the prevailing party in such litigation
will be entitled to recover its costs and legal fees incurred in connection with such litigation,
including any appeal.
(b) The rights and remedies of the parties hereunder are cumulative, and the exercise of any one
right or remedy will not prejudice the exercise of any other right or remedy.
(c) If any provision of this Agreement is found to be invalid or unenforceable by law, that
provision will cease to operate and will be considered severed from this Agreement. All
remaining provisions will continue to be valid and binding on the parties.
(d) No failure to exercise, and no delay in exercising, any right or remedy on any one occasion
will limit or constitute the waiver of the exercise of any right or remedy on any other occasion.
To be effective, any waiver must be in writing and signed by the party making the waiver. No
waiver of any provision will constitute a waiver of any other provision, whether or not similar,
nor will any waiver constitute a continuing waiver.
18. Termination
(a) Either party may terminate this Agreement upon written notice to the other party if the other
party fails to remedy a material breach of any of its representations, warranties or other
obligations under this Agreement within 30 days following receipt of a written notice of
said breach.
(b) Either party may immediately terminate this Agreement upon written notice, but without
prior advance notice, to the other party if:
(i) the other party is declared insolvent or bankrupt by a court of competent jurisdiction,
(ii) a voluntary petition of bankruptcy is filed in any court of competent jurisdiction by such
other party, or
(iii) this Agreement is assigned by such other party for the benefit of creditors.
(c) Upon the termination of this Agreement:
(i) all rights and duties of the parties under this Agreement will terminate except to the extent
otherwise expressly provided in this Agreement, and
(ii) each party will, at the request of the other party, return to the other party any Confidential
Information of the other party or certify that such Confidential Information has been
destroyed. Purchaser expressly acknowledges and agrees that Christie may exercise its
termination rights without incurring any obligation or liability to Purchaser by reason of
such termination.
(d) Sections 8-17, 18(c), 18(d), and 20 and any accrued payment obligations or existing claims
will survive any expiration or termination of this Agreement.
19. Notices
Any notice or other communication to be given under this Agreement will be in writing and
will be deemed given on the date of transmission when sent by facsimile transmission (if sent
by 4:00 pm Eastern Time or the next day if sent after 4:00 pm Eastern Time), with electronic
confirmation of transmission, on the third day after the date of mailing when mailed by
registered or certified mail, postage prepaid, return receipt requested, or when sent by
recognized courier service (such as FedEx), or on the date of actual delivery, whichever is
the earlier, and will be sent to Purchaser or Christie, as the case may be, at the address shown on
the quotation, or at such other address as either party may hereafter designate by written notice
to the other.
20. General
This Agreement
(i) constitutes the entire agreement of the parties with respect to the subject matter of this
Agreement and supersedes and replaces all written and oral agreements in respect thereof;
(ii) is governed by the laws of the State of California, USA,
(iii) is not subject to the UN Convention on Contracts for the International Sale of Goods;
(iv) is not assignable by the Purchaser without the prior written consent of Christie; and
(v) is binding on, and will enure to the benefit of, the parties and their respective successors
and permitted assigns.
<table>
<thead>
<tr>
<th>Corporate offices</th>
<th>Worldwide offices</th>
</tr>
</thead>
<tbody>
<tr>
<td>Christie Digital Systems USA, Inc. Cypress</td>
<td>Australia PH: +61 (0) 7 3624 4888</td>
</tr>
<tr>
<td>Christie Digital Systems Canada Inc. Kitchener</td>
<td>Brazil PH: +55 11 3181-2952</td>
</tr>
<tr>
<td></td>
<td>China (Beijing) PH: +86 10 6561 0240</td>
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<td>China (Shenzhen) PH: +86 755 3680 7000</td>
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<tr>
<td></td>
<td>United States (Arizona) PH: +1 602-943-5700</td>
</tr>
<tr>
<td></td>
<td>United States (Texas) PH: +1 469-757-4420</td>
</tr>
</tbody>
</table>

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

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CD2678-Cinema-Product-Catalog-23-US-EN-v1.0