J Series

3D mapping
Amusement
Arenas/Stadiums
Broadcast
Corporate

Energy
Events/Large venues
Government
Higher education
Home theater

Houses of worship
Manufacturing
Medical training
Scientific research
And more...

Designed with your image in mind.
6850-22,000 center lumens
SXGA+ (1400 x 1050)
HD (1920 x 1080)
WUXGA (1920 x 1200)

View the Christie J Series video
Reliability is in its genes. Performance is its genius.

Superior performance, high brightness and crisp, clear images – these are what you expect in a Christie® 3-chip DLP® projector. We’ve taken these features, added even more, and wrapped them up in the most compact chassis in its class. Welcome to the Christie J Series. This series of Christie projectors couples the benefits of Xenon illumination – for the most natural color accuracy and stability – with the next level of technology, performance and flexibility.

Creating visually compelling displays is paramount to your success. That’s our business too, so we’ve made higher brightness, Christie Twist™, 3D upgradability and flexibility standard in this series. You’ll see we’ve upgraded our existing 3-chip DLP platform with the features and functionality that you rely on to share, collaborate and create.

We’ve kept your bottom line in mind, as well. We’ve made sure that this new series can use existing lenses1, lamps, input cards2, stacking hardware and other Christie accessories.

The Christie J Series includes 2D and Mirage (3D-capable) models that are available in a broad range of brightness levels and resolutions. Whether your application is in broadcast, energy, entertainment, government, higher education, houses of worship, live events, manufacturing or medical, choose the model that fits your needs and budget, and know that all this is backed by Christie’s three-year warranty and our industry-leading service and support.

1, 2 See note on page 12.
Up to 22,000 lumens of Xenon brightness

You’ve told us how much you love Xenon technology and we think we know why. The continuous light quality, stable color temperature, excellent color reproduction and relatively little color shift give you eye-catching live displays, easily combat other light sources in the room and still wow your audiences time and again. That’s reliability you can trust.

Available in brightness levels ranging from 8500 ANSI (9350 center) lumens through 20,000 ANSI (22,000 center) lumens and three resolutions, SXGA+ (1400 x 1050), HD (1920 x 1080) and WUXGA (1920 x 1200), each model offers more brightness per pound than the competition and ensures that your content can be shown in its native resolution, without scaling.

Christie J Series models

<table>
<thead>
<tr>
<th>Model</th>
<th>Center luminos</th>
<th>Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Christie DS+10K-J</td>
<td>9350</td>
<td>SXGA+</td>
</tr>
<tr>
<td>Roadster S+22K-J</td>
<td>22,000</td>
<td>SXGA+</td>
</tr>
<tr>
<td>Roadster HD14K-J</td>
<td>13,200</td>
<td>HD</td>
</tr>
<tr>
<td>Roadster HD16K-J</td>
<td>15,400</td>
<td>HD</td>
</tr>
<tr>
<td>Roadster HD20K-J</td>
<td>20,000</td>
<td>HD</td>
</tr>
<tr>
<td>Roadster WU20K-J</td>
<td>20,000</td>
<td>WUXGA</td>
</tr>
</tbody>
</table>

Only Xenon in its class

Christie® is the only manufacturer to offer Xenon models that provide less than 10,000 lumens. The 1.0kW and 1.2kW Cermax® lamps make it possible for us to provide models in the less than 10,000-lumen category.

The Christie J Series offers the best color performance of any product in this market space.

Advantages of Xenon lamps

- Provides the highest level of on-screen performance, both for brightness and color accuracy
- The spectrum of a Xenon lamp results in relatively little color shift over time
- A Xenon lamp emits a continuous wavelength spectrum of light throughout the visible range (roughly 400 nm to 700 nm), which approximates the neutral white color of natural daylight
- Reaches full brightness in far less time than other lamp technologies
- Great for illuminating very large screens or high ambient environments
- Xenon lamps have the best color rendering index (CRI) of any lamp technology out there

Yellow notch filter

Available as an optional feature for all Christie J Series models, the yellow notch filter is an optical color management device that emulates film-like color. It creates greater separation between the primary colors, RGB, resulting in a larger available color gamut for better reproduction of skin tones and richer color depth and saturation. This is especially apparent in green and red tones, resulting in a more life-like display on the screen. This color filter must be factory installed at time of purchase.

1 Lumens values are for projectors that do not have yellow notch filter installed.
Crisp, clean images time and again

There are many factors that determine the quality of an image – 3-chip DLP® technology, high-quality optics and world-class 10-bit image processing ensure you display the best image. You need all of these elements working together if you’re going to present clear, detailed, true-to-life images and information. The Christie J Series encompasses all of this and more. We’ve also added a dust-sealed engine and optics to help protect your investment and keep maintenance costs low. Liquid cooling and a thermal-feedback system keep your projector at a temperature that ensures optimal performance.

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**Image quality**

Based on 3-chip DLP technology, high-quality optics and world-class 10-bit image processing, the Christie J Series delivers:

- High brightness
- Excellent color
- Excellent uniformity
- High reliability (>100,000 hours MTBF for DMDs)
- High contrast
- Excellent fill ratio

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**Dust-sealed engine**

Christie J Series projectors are designed with dust-sealed engines and optics. Since dust and dirt cannot affect the system, image quality is maintained and maintenance costs are lower. Optional fog juice filters are available for projectors exposed to harsh environments.

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**Liquid cooling**

Christie Roadster and Christie Mirage models (equipped with a 2.0kW, 2.4kW or 3.0kW lamp) include a thermal-feedback system and a liquid-cooling module for the DMDs to continually maintain the projector’s temperatures in the correct operating range. This improves the overall DMD performance and reliability when used in harsh environments. It also enables the projector to operate in temperatures up to 104°F (40°C) allowing for use in less than ideal conditions.

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![3-chip DLP technology](image1)

![Image quality](image2)

![Dust-sealed engine](image3)

![Liquid cooling](image4)

![Solomon Victory Theater National World War II Museum, New Orleans, LA](image5)
Taking performance to a new level

We’ve embedded powerful features such as Christie® Twist™ and an Intelligent Lens System (ILS™), edge blending and color matching capabilities to ensure that setup and maintenance of your displays are repeatable, quick and easy. Monitoring and controlling your displays from a distance are made simple with our ChristieNET™ web interface. And, when you’re close to your projector our intuitive LCD keypad gives straightforward, easy access to manage your display. Additional hardware or software is no longer required; making your life easier.

The Christie J Series platform supports existing stacking hardware, lenses¹, input cards² and other Christie accessories (e.g. portrait lens adapter); as well, the new lamp modules for the Christie J Series can be used with legacy Xenon projector models. This keeps money in your pocket and your displays amazing audiences.

¹, ² See note on page 12.

Embedded Christie Twist

Standard in all Christie J Series models, Christie Twist enables seamless edge blending of multiple curved images faster and more easily than through traditional, manual methods. Controlled by an easy-to-use GUI, you can expertly control and edge blend or stack multiple curved images. As well, images can be warped to fit virtually any dimension or shape display. Embedded Christie Twist ensures that all J Series projectors work with value-added accessories, such as Christie AutoStack™.

“For a recent show, I needed to project onto a multi-dimensional stage with two double-stacked Christie Roadster projectors. I used one PC-based video server per projector to be able to fit the predesigned image and content onto the stage surface, as well as geometrical adjustments to each image independently in order to converge them all.

If Christie Twist had been installed in the projectors, I could have used two computers instead of four, had less image lag, and it would have been cheaper and faster to get the job done. I now see that it makes complete sense to have Christie Twist on every projector used in projection mapping displays because it makes set up easier, reduces the number of the video servers needed for the job and decreases the failure points of the whole system.”

Bart Kresa, BARTKRESA design

Intelligent Lens System (ILS)

The ILS automatically recognizes and calibrates a lens when it is installed. Stepper motor-based encoding ensures that motor drift does not occur, as typically found with DC encoded motors, providing accurate and repeatable recall of all lens offset, zoom and focus positions. This lens system ensures that the images adjust to optimize screen coverage and maintain alignment in applications with moving screens or variable aspect ratios.
ChristieNET web interface and Virtual On-Screen Display (OSD)

ChristieNET enables users to access all projector menus and controls through a web interface without disrupting the live presentation. This allows for real-time adjustments and monitoring of each projector on the network – regardless of geographic location. It’s easy to set up and maintain the projector system remotely. You don’t need to see the screen to set up the system, making it ideal for applications where the screen is rigged or far away. The menus do not show on the projector screen so it won’t be a distraction during live performances. A new status screen shows alarms, lamp info, or any system information. The easy-to-use interface lets you upload, backup and restore settings, as well as designate permission-based users.

Embedded edge blending and color matching

Advanced blending capabilities and Comprehensive Color Adjustment (CCA™) ensure digitally accurate color matching and uniformity across multi-screen blended or tiled images.

LiteLOC

The LiteLOC™ feature automatically manages your display’s brightness levels over time so that you can match the brightness of a multiple projector system in tiled or blended arrays. This feedback system continuously monitors lamp brightness so that, as the lamp goes through its natural brightness decay, the system increases the lamp power in order to maintain consistent brightness.

Wireless projection control

Christie wireless projector control brings projection management to your fingertips – literally – with wireless projector control applications for Apple® iOS and Android-based mobile digital devices.

The Christie InControl app lets you control Christie projectors directly from your iPhone, iPad and iPod; The Christie Virtual Remote app offers the ability to manage Christie projectors using your Android-based mobile device.

The two applications are designed to control any Christie J Series and M Series projectors. Each projector can be controlled individually, or grouped together and controlled simultaneously. The Christie InControl app is available as a free download from the Apple App Store. The Christie Virtual Remote is available as a free download from the Google Play store.

LCD keypad

This easy-to-use LCD keypad includes:

- Contextual menus provide a fully-featured, intuitive interface that removes the need for a cluttered keypad
- Large, four line LCD display
- Adjustable brightness and timed LCD off mode
- Intuitive, user-friendly keypad design that lights up when features are active
- Active keys are color-coded amber to indicate that selections will result in changes visible to the audience
Christie understands 3D

Today, a wide range of applications make use of 3D technology to provide a host of benefits – from decreased costs through virtual design prototyping, increased effectiveness while exploring oil deposits and wells, never-seen-before perspectives designed for medical and scientific research programs, or having fun at a theme park. But it’s not just any 3D technology that has been used – only Christie® has been there since the beginning. A true pioneer in the development of 3D projection technology, only Christie can offer the expertise required for today’s emerging 3D display applications.

Our Christie Mirage J Series of 3D-capable projectors offers complete compatibility with today’s 3D standards. They offer brightness levels ranging from 6200 ANSI (6850 center) lumens through 20,000 ANSI (22,000 center) lumens and contrast ratios that include SXGA+ (4:3), HD (16:9) and WUXGA (16:10). The most compact 3-chip DLP® active stereo projectors in their class, this series of projectors delivers crisp, detailed images with excellent color and brightness.

These projectors offer complete compatibility with today’s 3D home entertainment requirements and are ready for Blu-ray™ 3D video, PS3 and other gaming consoles, meeting the mandatory 3D spec for HDMI v1.4a. To ensure your 3D solution is complete, Christie also offers a range of accessories that include: 3D glasses (active and passive), emitters and modulators.

Powered by dual image processing, the Christie Mirage J Series displays full resolution at a native frame rate up to 120Hz. Two standard Dual link DVI input cards support 330 MHz bandwidth for full resolution Dual input 3D.

For the ultimate home theater including Blu-ray 3D video content, the Christie Mirage J Series uses triple flash to provide the best images possible, no matter how fast motion your content might be. You can count on Christie to ensure the highest image quality and a comfortable theater-like viewing experience.

Christie Mirage J Series models¹

<table>
<thead>
<tr>
<th>Model</th>
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<th>Resolution</th>
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<tbody>
<tr>
<td>Mirage S+22K-J</td>
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<td>SXGA+</td>
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</tr>
<tr>
<td>Mirage HD20K-J</td>
<td>20,000</td>
<td>HD</td>
</tr>
<tr>
<td>Mirage WU7K-J</td>
<td>6850</td>
<td>WUXGA</td>
</tr>
<tr>
<td>Mirage WU14K-J</td>
<td>13,200</td>
<td>WUXGA</td>
</tr>
<tr>
<td>Mirage WU20K-J</td>
<td>20,000</td>
<td>WUXGA</td>
</tr>
</tbody>
</table>

¹ Lumens values are for projectors that do not have yellow notch filter installed.
Active stereoscopic viewing

Active stereoscopic displays provide the best 3D imagery available today. Active stereo is typically used for applications where life-like color reproduction and finite detail are required for precise content in key decision-making applications. Offering the most detailed and life-like 3D images, the Christie Mirage J Series uses Xenon-based illumination for the best color reproduction and can be used with Christie Mirage 3D active stereoscopic accessories, including an emitter and LCD shutter glasses. For applications that require a larger display for 1:1 scale visuals, you can use multiple Christie Mirage J Series projectors blended into a single, larger display.

Passive stereoscopic viewing

When it comes to 3D for a larger crowd, passive stereoscopic displays offer the best return on investment. Using low-cost polarized glasses that can be given away or recycled after a single use, a passive stereo display is a cost effective way to deliver quality 3D images. Combine a silver screen and Christie Mirage J Series projectors with Christie Mirage 3D accessories, including our passive modulator and circular polarized 3D glasses, and you can bring incredible eye-popping 3D to even the largest of audiences!

Active single projector versus stacked dual projectors

Single, active 3D projection eliminates the need to stack, align and color match projectors and continually monitor and match brightness of two projectors for consistent left eye/right eye display. Typically for comparable brightness, single active 3D projection will operate with less noise, heat, physical space requirements and consumables along with fewer failure points and overall lower power consumption.
### Standard 3D inputs

Whether your data content or images are being generated by a computer, a Blu-ray™ player, a gaming console, or a server – 3D content comes in a wide variety of shapes and sizes. The way that your content is distributed can have an impact on your 3D experience.

### 3D upgradable

Christie® also makes it easy to future proof your investment by being the first in the industry to offer upgrade paths for select 3-chip DLP® projectors to Mirage Series models. Whether you need 3D capability today or tomorrow, Christie has the innovation, breadth of technologies, engineering strength and the integration expertise to offer the right display solutions to fit your business needs.

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1 Blu-ray content is always forced to be triple flashed (144Hz output). No need to select “Triple Flash” from the menu as this is intended for DVI sources, not Blu-ray.
3D Accessories

<table>
<thead>
<tr>
<th>Description</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Active stereo</strong></td>
<td></td>
</tr>
<tr>
<td>Glasses – single</td>
<td>• 108-407102-XX</td>
</tr>
<tr>
<td>Glasses – 10 pack</td>
<td>• 108-409104-XX</td>
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<tr>
<td>Emitter – standard range</td>
<td>• 108-410106-01</td>
</tr>
<tr>
<td>Emitter – long range</td>
<td>• 108-415101-01</td>
</tr>
<tr>
<td><strong>Passive stereo</strong></td>
<td></td>
</tr>
<tr>
<td>Glasses – single</td>
<td>• 108-412108-XX</td>
</tr>
<tr>
<td>DepthQ polarization modulator</td>
<td>• 108-411107-XX</td>
</tr>
</tbody>
</table>

Benefits of 3D

- Provides perspective not possible with traditional 2D software and tools
- Reduces time to market
- Excites audiences ... WOW! factor
- Accelerates understanding and decision making
- Enables faster, more intuitive interaction with data
- Promotes collaboration and focus on collective strengths
- Ensures greater accuracy of concepts and designs
- Removes inherent boundaries found in traditional tools
Rigging and stacking

Christie’s stacking kit enables you to stack up to a maximum of three of the projectors (equipped with a 1.0kW or 1.2kW lamp) into a light-weight, sturdy frame. Customers with existing stacking mounts and hardware can use the same equipment with Christie J Series models. This means that you can effortlessly stack a Christie Roadster S+20K with a Christie Roadster S+22K-J, for example.

Hybrid stack

The stacking frame can also connect to the integral rigging points on any Christie Roadster model for a hybrid stack with a model that uses a 1.0kW or 1.2kW lamp. Adjustable mount wheels aid in projector alignment.

Portrait capabilities

Christie 3-chip DLP® projectors offer the flexibility to project in portrait orientation. For models using a 1.0kW or 1.2kW lamp, the portrait display adapter makes the change in orientation easy. The adapter attaches to the projector’s lens and enables you to project the image in portrait orientation instead of landscape. Christie Roadster models have built-in portrait capabilities and do not require the portrait display adapter.

Setup lights

Christie Roadster and Christie Mirage models (equipped with a 2.0kW, 2.4kW or 3kW lamp) include ‘convenience lights’ that allow for easy set up in dark environments.

Bulb replacement

Reduce your cost of ownership by replacing only the bulb – not the entire lamp module assembly (for models equipped with a 2.0kW, 2.4kW or 3.0kW lamp).

Designed to work with you

Christie® J Series is designed with many robust features that take some of the complexities out of your job. The easy-to-use lamp insertion mechanism lets you replace the lamp yourself quickly and easily. The portrait display adapter gives you the option to create displays in portrait orientation with 1.0kW or 1.2kW models, while the Christie Roadster models have built-in portrait capabilities. Even if you have existing rigging and stacking mounts, lenses, lamps, input cards, stacking hardware and other Christie accessories you can use them with the Christie J Series.
Fog filter options

To help extend the life of your projector and protect your investment, optional fog juice filters are available for environments that require more than the protection of our dust-sealed engine.

The design of the fog juice filter kits – attached to the projector – reduces the affects of the oil or juice created by fog, smoke, hazers and pyrotechnics. These kits include easy-to-install external media mounts and one set of filters (internal and external). The life of the filters depends on the amount of bi-product captured, but they typically can last up to 20 hours.

Serviceability and support

All Christie 3-chip DLP projectors ship standard with a three-year warranty on parts and labor (including light engine).

Environmental commitment

We recognize our responsibility to control the impact our business activities, products and services have on the environment. We’re fully committed to finding and using environmentally friendly solutions, and to meeting or exceeding applicable laws, regulations and organizational objectives. You’ll notice that the Christie J Series includes features that support our commitment to being eco-friendly.

As an industry leader, we are committed to the prevention of pollution and continual improvement through implementation of our ISO14001 registered environmental management system.

Efficiency

The lamps used in Christie J Series projectors produce the highest lumens per watt, enabling brighter images without additional power requirements. As well, liquid cooling with the thermal-feedback system in the Christie Roadster and Christie Mirage models (equipped with a 2.0kW, 2.4kW or 3.0kW lamp), improves performance and enables the projectors to run cooler in harsh environments, using less power to keep the DMDs cool. DLP projectors offer higher brightness from smaller units and consequently use less power to achieve the same levels of brightness.

Auto shut-off and eco mode

Reduce your cost of ownership by reducing power consumption and extending lamp life when the projector isn’t being used. These projectors can run in eco mode, which reduces brightness and therefore reduces your power requirements and extends the life of your lamp. A reduction in the projector’s thermal output minimizes energy use and possible air-conditioning needs.

Low power standby modes

Standby power consumption (phantom power draw) is less than 30W.

Bare bulb replacement

You can replace lamps instead of the entire lamp module assembly, reducing unnecessary waste and extra shipping requirements.

Fog filter

CT lens mount
Expanded lens suite

This full suite of fixed, short zoom and long zoom lenses for SXGA+, HD and WUXGA resolutions, provides the broadest range of lenses in this marketplace.
**Input cards**

Each projector is equipped with four input card slots to ensure flexibility and compatibility with a variety of signals. The input cards used in Christie® J Series projectors are also compatible with the Christie M Series models.

### Analog input card

The Analog input card accepts an analog video signal input over a 5 BNC connector interface. It can accept RGBH&V signals over 5 connectors, as well as component YPbPr signals on the RGB inputs.

### DMX512 interface card

This interface card supports the DMX512 communication standard through two 5-pin XLR connectors.

### Dual link DVI input card

The Dual link DVI input card has a 15-pin VGA connector for analog signals and a DVI-I connector which can support a single or dual link DVI HDCP video signal. This input card can also support 2D and 3D signals up to 330 MHz.

### Dual 3G SD/HD-SDI input card

The Dual 3G SD/HD-SDI input card accepts both standard-definition (SD) and high-definition (HD) serial-digital-interface (SDI) signals, and enables you to connect two of either types of signal. Both single-link HD and dual-link HD signals are accepted. This card also has two 3G SD/HD-SDI outputs to enable “loop-through” for its respective input.

### Video decoder input card

The Video decoder input card accepts various types of standard definition (SD) video, including CVBS (composite video), S-video, and component. It accepts NTSC 3.58, NTSC 4.4, PAL, PAL-N, PAL-M or SECAM formats. This card has two mini-DIN connectors (for S-video signals) and four BNC connectors that can be grouped to allow combinations of CVBS, S-Video, YPbPr or RGB video sources.

### Twin HDMI input card

The Twin HDMI™ input card accepts two HDMI inputs and provides 12-bit deep color handling on the input. It also supports the HDMIv1.4a format required for 3D systems providing the projector is upgraded with 3D capabilities. Additionally, advanced loop-through allows any input on any input card to be looped through to the two HDMI outputs on the card.

This functionality ensures that when stacking systems with any input (DVI, RGBHV or HDMI), the Twin HDMI card can be used to send the signal to a second projector. This stacked system is also a passive loop-through providing the repeater projector has AC power, even when powered off, the signal will continue to be looped out to the second projector.

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**Description**

<table>
<thead>
<tr>
<th>Lamps</th>
<th>Description</th>
<th>Part number</th>
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</thead>
<tbody>
<tr>
<td>1.0kW CermaxXenon</td>
<td>pre-aligned lamp module</td>
<td>003-120117-XX</td>
</tr>
<tr>
<td></td>
<td>pre-aligned lamp module</td>
<td>003-120116-XX</td>
</tr>
<tr>
<td>2.0kW Xenon bubble lamp</td>
<td>module</td>
<td>003-120135-XX</td>
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<td></td>
<td>lamp</td>
<td>03-000883-XX</td>
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<tr>
<td></td>
<td>bare bulb kit</td>
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<tr>
<td>3.0kW Xenon bubble lamp</td>
<td>module</td>
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<td></td>
<td>lamp</td>
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<td>Bulb alignment tool</td>
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**Input cards**

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<tr>
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<td>Analog input</td>
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<td>Dual link DVI input</td>
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<td>Video decoder input</td>
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<tr>
<td>Dual 3G SD/HD-SDI input</td>
<td>108-313101-XX</td>
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<td>Twin HDMI input</td>
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<tr>
<td>DMX512 interface</td>
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**Other**

<table>
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<tr>
<th>Description</th>
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<tbody>
<tr>
<td>ILS lens adapter kit</td>
<td>108-331108-XX</td>
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<tr>
<td>Portrait display adapter</td>
<td>118-116109-XX</td>
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<td>Fog juice filters</td>
<td>132-114107-XX</td>
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<tr>
<td>Ceiling mount^1</td>
<td>104-100001-XX</td>
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<tr>
<td>Ceiling mount</td>
<td>104-104001-XX</td>
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<tr>
<td>Ceiling mount extension</td>
<td>104-101001-XX</td>
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<tr>
<td>Stacking kit</td>
<td>104-117101-XX</td>
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<tr>
<td>Edge blending kit</td>
<td>104-102101-XX</td>
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<tr>
<td>Remote IR sensor</td>
<td>104-106101-XX</td>
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^1For models equipped with a 1.0kW or 1.2kW lamp
<table>
<thead>
<tr>
<th>Model</th>
<th>Display technology</th>
<th>Lamp type</th>
<th>Accessories</th>
<th>Power requirements (Dual lamp mode)</th>
<th>Dimensions</th>
<th>Operating environment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Roadster S+22K-J, HD14K-J, HD16K-J, HD20K-J</td>
<td>• 3-chip 0.95&quot; DMD</td>
<td>• 1.2kW Cermax Xenon pre-aligned lamp module</td>
<td>• IR remote • Line cord</td>
<td>• 200-240 VAC @ 50/60Hz maximum operating current: 20A @ 200V power: 2000W dissipation: 6830 BTU/hr</td>
<td>(LxWxH): 32.0 x 24.5 x 16.5&quot; (815 x 621 x 419mm) weight: 125lbs (57kg) shipping weight: 200lbs (91kg)</td>
<td>Temperature: 40-104°F (5-40°C) • Humidity: 20-80% non-condensing</td>
</tr>
<tr>
<td>Roadster S+22K-J, HD14K-J, HD16K-J, HD20K-J</td>
<td>• SXGA+ (1400 x 1050)</td>
<td>• 3.0kW Xenon bubble lamp module</td>
<td></td>
<td></td>
<td>(LxWxH): 33.5 x 30.0 x 26.0&quot; (851 x 762 x 660mm) weight: 88lbs (40kg) shipping weight: 160lbs (72.5kg)</td>
<td></td>
</tr>
<tr>
<td>Roadster HD16K-J</td>
<td>• HD (1920 x 1080)</td>
<td>• 2.4kW Xenon bubble lamp module</td>
<td></td>
<td></td>
<td>(LxWxH): 32.0 x 24.5 x 16.5&quot; (815 x 621 x 419mm) weight: 125lbs (57kg) shipping weight: 200lbs (91kg)</td>
<td></td>
</tr>
<tr>
<td>Roadster HD14K-J</td>
<td></td>
<td>• 2.0kW Xenon bubble lamp module</td>
<td></td>
<td></td>
<td>(LxWxH): 31.5 x 24.5 x 16.5&quot; (800 x 621 x 419mm) weight: 125lbs (57kg) shipping weight: 200lbs (91kg)</td>
<td></td>
</tr>
<tr>
<td>Roadster HD16K-J</td>
<td></td>
<td>• 3.0kW Xenon bubble lamp module</td>
<td></td>
<td></td>
<td>(LxWxH): 32.0 x 24.5 x 16.5&quot; (815 x 621 x 419mm) weight: 125lbs (57kg) shipping weight: 200lbs (91kg)</td>
<td></td>
</tr>
</tbody>
</table>

Accessories:
- IR remote • Line cord
- Analog input card • Dual link DVI input card • Video decoder input card • Dual 3G SD/HD-SDI input card • Twin HDMI input card • DMX512 interface card • ILS lens adapter kit
- Portrait display adapter (1.0kW and 2.0kW models only) • CT lens mount • Yellow notch filters • Fog juice filters (Roadster models only) • Edge-blending kit • Remote IR sensor • Bulb alignment tool • Christie AutoStack (optional curve module available) • 3D upgrade kits

Enhanced feature sets:
- Embedded Christie Twist • Embedded image tiling • Intelligent Lens System (ILS) • 3D upgradable • Advanced block artifact reduction • ChristieNet Web interface
- User-friendly, intuitive LCD keypad • User-replaceable lamps • Advanced loop-through twin HDMI card • Lamp memory module • Advanced, 10-bit processing
- Automatic shutter-off and ECO mode • Dust-sealed light engine • SNMP (simple network management protocol) • DHCP (dynamic host configuration protocol)
- 24/7 operation • Hybrid stack • Compatibility with existing accessories • Liquid cooling • Setup lights • Built-in portrait capabilities

Power requirements:
- 200-240 VAC @ 50/60Hz
- 10A @ 200V
- 20A @ 200V
- 4000W
- 2800W
- 16A @ 200V
- 3200W
- 4000W

Dimensions:
- (LxWxH): 22.3 x 26.0 x 12.9 (566 x 660 x 328mm)
- 160lbs (72.5kg) (without lens)
- 125lbs (57kg)
- 200lbs (91kg)

Operating environment:
- Temperature: 40-104°F (5-40°C) • Humidity: 20-80% non-condensing

Regulatory approvals:
- Regulatory Approvals/Markings: Directives (EC) 2011/65/EU (RoHS), 2012/19/EU (WEEE), Regulation (EC) No. 1907/2006 (REACH) • CAN/CSA C22.2 No. 60950-1 • UL 60950-1 • IEC 60950-1
- FCC, Part 15, Subpart B, Class A • ENS5024/CISP22 Class A • ENS5024 / CISP24
- Certifications marks (check with CDS for latest update): cULus (Canada & US), CE (EU), CCC (China), GoSt-R (Russia), KC (Korea), PSE (Japan), C-Tick (Australia & New Zealand), South Africa

Limited warranty:
- Three years parts and labor (including light engine)
Enhanced feature sets

- Lenses
- Power
- Standard technology
- Brightness
- Optional scan rates
- Pixel clock

Shipping weight:
- (LxWxH): 33.5 x 30.0 x 26.0” (856 x 762 x 660mm)
- (LxWxH): 22.3 x 26.0 x 12.9” (566 x 660 x 328mm)

- 6830 BTU/hr
- 9560 BTU/hr
- 10,925 BTU/hr
- 13,650 BTU/hr

- 10A @ 200V
- 14A @ 200V
- 200-240 VAC @ 50/60Hz
- 200-240 VAC @ 50/60Hz

- 2800W
- 4000W
- 18,000 ANSI lumens
- 12,000 ANSI lumens
- 18,000 ANSI lumens
- 20,000 center lumens

- 285.0 [11.22]
- 240.0 [9.45]
- 230.0 [9.06]
- 292 [11.5]

- 274.8 [10.82]
- 134.0 [5.27]
- 294.4 [11.59]
- 207.5 [8.17]

- 320.0 [12.60]
- 221.7 [8.73]
- 113.3 [4.5]
- 190.0 [7.48]

- 117.2
- 73.8 [3.06]
- 196.0 [7.72]
- 184.1

- ±112% Vertical • ±54% Horizontal
- (± ±22%V ±6%H) • (± ±82%V ±38%H)

- 20A @ 200V
- 4000W
- 13,650 BTU/hr

- 18,000 ANSI lumens
- 20,000 center lumens

- 184.1
- 77.8 [3.06]
- 196.0 [7.72]
- 274.8 [10.82]

- 134.0 [5.27]
- 294.4 [11.59]
- 207.5 [8.17]
- 274.8 [10.82]

- 113.3 [4.5]
- 73.8 [3.06]
- 196.0 [7.72]
- 184.1

- ±54% Horizontal
- ±54% Horizontal

- Built-in backlit LCD keypad
- Advanced block artifact reduction
- Remote control (with optional wired XLR connection)

- Automatic shut-off and ECO mode
- User-friendly, intuitive LCD keypad

- 24/7 operation
- Intuitive user interface
- SNMP (simple network management protocol)

- CT lens mount
- DMX512 interface card
- ILS lens adapter kit

- ILS Lens 1.2:1 SX+/1.1:1 HD
- ILS Lens 1.5-2.0:1 SX+/1.4-1.8:1 HD
- ILS Lens 2.0-2.8:1 SX+/1.8-2.6:1 HD

- Dual link DVI input card
- Dual 3G SD/HD-SDI
- 3-chip 0.95” DMD

- Analog SXGA+ (1400 x 1050)
- Analog bubble lamp module

- En55022/CISPR22 Class A
- CAN/CSA C22.2 No. 60950-1

- 184.1
- 77.8 [3.06]
- 184.1
- 77.8 [3.06]

- 1.2kW models only
- 1.0kW models only
- 1.5kW models only

- Roadster WU20K-J
- 330 [13.0]
- 566 [22.3]
- 343.3 [13.52]

- 240.0 [9.45]
- 113.3 [4.5]
- 330 [13.0]
- 566 [22.3]
### Technical Specifications

<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td><strong>Image</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brightness</td>
<td>6200 ANSI ANSI lumens (6850 center lumens) @ 220V</td>
<td>20,000 ANSI lumens (22,000 center lumens)</td>
<td>12,000 ANSI lumens (13,200 center lumens)</td>
<td>14,000 ANSI lumens (15,400 center lumens)</td>
<td>18,000 ANSI lumens (20,000 center lumens)</td>
</tr>
<tr>
<td>Contrast</td>
<td>1600-2000:1 full</td>
<td>90% brightness uniformity</td>
<td>90% brightness uniformity</td>
<td>80% brightness uniformity</td>
<td></td>
</tr>
<tr>
<td>Uniformity</td>
<td>80% brightness uniformity</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td><strong>Display Technology</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td>3-chip 0.96&quot; DMD</td>
<td>0.95&quot; DMD</td>
<td>SXGA (1920 x 1200)</td>
<td>SXGA+ (1400 x 1050)</td>
<td>HD (1920 x 1080)</td>
</tr>
<tr>
<td>Frame Delay</td>
<td>As low as one frame</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Lamp</strong></td>
<td>1.0kW Cermax Xenon pre-aligned lamp module</td>
<td>3.0kW Xenon bubble lamp module</td>
<td>2.0kW Xenon bubble lamp module</td>
<td>2.4kW Xenon bubble lamp module</td>
<td>3.0kW Xenon bubble lamp module</td>
</tr>
<tr>
<td>Estimated Life</td>
<td>1500 hrs</td>
<td>750 hrs</td>
<td>1000 hrs</td>
<td>750 hrs</td>
<td>750 hrs</td>
</tr>
<tr>
<td><strong>Input</strong></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Standard</td>
<td>Slot 1-2 populated, standard: two Dual Link DVI-D (330 MHz) input cards (each has VGA (165 MHz) for 3D or dual input 3D compatibility) with HDMI 1.3 receiver Slot 3-4 populated</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Optional</td>
<td>Analog • Dual link DVI • 3-DSDI/SDI-3D • Video decoder • Twin HDMI</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Signals</td>
<td>HDTV formats VGA through to QWXGA (2560 x 1600)</td>
<td>Accepts all current 2D HDTV/DTV formats (optional input cards may be required)</td>
<td>HDMI 1.3 receiver supports mandatory HDMI 1.4 3D modes of operation plus 24-144Hz triple flash 3D mode • Multi-standard video decoder • Horizontal and vertical scaling, all inputs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pixel Clock</td>
<td>330 MHz</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Scan Rates</td>
<td>Horizontal: 15-120Hz • Vertical: 23:97-150Hz (frame lock maximum 120Hz) • 48-60Hz frame doubled or dual input 3D • 48Hz (24Hz per eye) frame triple flash</td>
<td></td>
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</tr>
<tr>
<td><strong>Control and Networking</strong></td>
<td>RS232 in/out • RS232 in • Ethernet (10/100) • USB Device • GPIO (RS232 9 Pin male connector) • Built-in backlit LCD keypad • Remote control (with optional wired XLR connection)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Optical System</strong></td>
<td>Dust-sealed 3-chip DMD light engine • Motorized horizontal and vertical lens offset • Scheimpflug/Boresite (tilt) adjustment • Built-in light shutter • Tool-free lens insertion system</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Lenses</strong></td>
<td>Fixed: ILS Lens 0.73:1 SX+/0.67:1 HD+ • ILS Lens 1.21:1 SX+/1.11:1 HD+</td>
<td>Fixed: ILS Lens 1.25:1.61 SX+/1.16:1.49:1 HD • ILS Lens 1.5:2.01:1 SX+/1.4:1.8:1:1 HD • ILS Lens 2.0:2.81:1 SX+/1.8:2.6:1.1 HD • ILS Lens 2.8:4.5:1:1 SX+/2.6:4:1.1 HD</td>
<td>ILS Lens 4.5:5.1:1 SX+/4.1:6.9:1 HD • ILS Lens 7.5:11:2.1:1 SX+/6.9:10:4.1 HD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zoom</td>
<td>ILS Lens 1.25:1.61 SX+/1.16:1.49:1 HD • ILS Lens 1.5:2.01:1 SX+/1.4:1.8:1:1 HD • ILS Lens 2.0:2.81:1 SX+/1.8:2.6:1.1 HD • ILS Lens 2.8:4.5:1:1 SX+/2.6:4:1.1 HD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Offsets</td>
<td>±112% Vertical • ±54% Horizontal</td>
<td>±100% Vertical • ±50% Horizontal</td>
<td>±23%V ±13%H</td>
<td>±70%V ±45%H</td>
<td>±120% Vertical • ±54% Horizontal</td>
</tr>
<tr>
<td><strong>Accessories</strong></td>
<td>IR remote • Line card</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Optional</td>
<td>ILS lens adapter kit • CT lens mount • Yellow notch filter • 3D glasses (active and passive) • 3D active emitter • 3D passive modulator • Fog juice filters • DMX512 interface card</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Enhanced feature sets</td>
<td>Embedded Christie Twist • Embedded image tilting • Intelligent Lens System (ILS) • Advanced block artifact reduction • ChristieNET web interface • User-friendly, intuitive LCD keypad</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Power Requirements</strong> (Dual lamp mode)</td>
<td>100-220 VAC @ 50/60Hz</td>
<td>12A @ 100-120V • 8A @ 200-240V</td>
<td>160W0</td>
<td>14A @ 200V</td>
<td>16A @ 200V</td>
</tr>
<tr>
<td>Maximum Operating Current</td>
<td>200-240 VAC @ 50/60Hz</td>
<td>20A @ 200V</td>
<td>2800W</td>
<td>3200W</td>
<td>4000W</td>
</tr>
<tr>
<td>Power Dissipation</td>
<td>5460 BTU/hr</td>
<td>13,650 BTU/hr</td>
<td>9560 BTU/hr</td>
<td>10,925 BTU/hr</td>
<td>13,650 BTU/hr</td>
</tr>
<tr>
<td>Dimensions</td>
<td>(LxWxH): 22.3 x 26.0 x 12.9&quot; (566 x 660 x 328mm)</td>
<td>(LxWxH): 32.0 x 24.5 x 16.5&quot; (815 x 621 x 419mm)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>88lbs (40kg)</td>
<td></td>
<td>160lbs (72.5kg) (without lens)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight Shipping</td>
<td>125lbs (57kg)</td>
<td></td>
<td>200lbs (91kg)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Operating Environment</strong></td>
<td>Temperature: 40-104°F (5-40°C) • Humidity: 20-80% non-condensing</td>
<td></td>
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</tr>
</tbody>
</table>

### Limited Warranty
* Three years parts and labor (including light engine)

1 Factory installed at time of purchase.
2 Does not apply to Mirage WU7K-J.
3 Only applies to Mirage WU7K-J.
4 Dimensions A, B and C are based on the lens being used.
Mirage WU14K-J
• 12,000 ANSI lumens (13,200 center lumens)
• 3-chip 0.96" DMD
• WUXGA (1920 x 1200)
• 2.0kW Xenon bubble lamp module
• 1000 hrs

Mirage WU20K-J
• 18,000 ANSI lumens (20,000 center lumens)
• 3-chip 0.96" DMD
• WUXGA (1920 x 1200)
• 3.0kW Xenon bubble lamp module
• 750 hrs

• ±112% Vertical • ±54% Horizontal
• ([±82%V + 38%H])

• 14A @ 200V
• 2800W
• 9560 BTU/hr

• 20A @ 200V
• 4000W
• 13,650 BTU/hr

Regulatory Approvals/Markings: Directives (EC) 2011/65/EU (RoHS); 2012/19/EU (WEEE); Regulation (EC) No. 1907/2006 (REACH)

88lbs (40kg) (without lens)

96-120Hz frame rate up to 1920 x 1200

330 MHz

HDTV formats VGA through to QWXGA (2560 x 1600)

• 3-chip 0.96" DMD

80% brightness uniformity

• 8A @ 200-240V

Certifications marks (check with CDS for latest update): cULus (Canada & US), CE (EU), CCC (China), GoST -R (Russia), KC (Korea), PSE (Japan),

8A @ 200-240V

FCC, Part 15, Subpart B, Class A

Yellow notch filter

Motorized horizontal and vertical lens offset

USB Device

8A @ 200-240V

48Hz (24Hz per eye) frame triple flash

(±102%V ±40%H)

Liquid cooling ( 2.0kW, 2.4kW, 3.0kW models only)

9560 BTU/hr

160lbs (72.5kg) (without lens)

14A @ 200V

10,925 BTU/hr

13,650 BTU/hr

1000 hrs

1000 hrs

165.9 [6.5]

63.6 [2.5]

63.6 [2.5]

384.0 [15.1]

384.0 [15.1]

32.5 [1.3]

454.0 [18.0]

454.0 [18.0]

486.5 [19.2]

486.5 [19.2]

4X 46.0 [1.8]

4X 46.0 [1.8]

165.9 [6.5]

63.6 [2.5]

63.6 [2.5]

384.0 [15.1]

384.0 [15.1]

32.5 [1.3]

454.0 [18.0]

454.0 [18.0]

4X 46.0 [1.8]

4X 46.0 [1.8]

165.9 [6.5]

63.6 [2.5]

63.6 [2.5]

384.0 [15.1]

384.0 [15.1]

32.5 [1.3]

454.0 [18.0]

454.0 [18.0]