HD Series

Audience events
Auditoriums
Boardrooms
Broadcast
Conference rooms
Home theater
Houses of worship
Large venue
Renters/Stagers
Training rooms

HD done right

The Christie HD Series offers the broadest range of the brightest full 1920 x 1080 HD resolution projectors on the market today. Lighter, lower power consumption and 10% brighter than the competition – Christie is HD resolution done right.

Ranging from 2300 to a brilliant 18,000 ANSI lumens, each of the eight projectors in this series offers the highest lumens per pound, full HD resolution and proven 3-chip DLP® technology with Xenon® illumination.

The Christie Roadster HD18K is the brightest HD projector with a compact design and built-in rigging points and handles. The HD resolution provides the versatility of displaying both 16:9 and 4:3 aspect ratios without losing any content. It makes installation and use more flexible.

The Christie HD3K offers full HD resolution in a 2900 ANSI lumen lamp life package. The HD2Kc provides 2300 ANSI lumens combined with longer lamp life and a film-like color experience.

The series features a variable contrast ratio of 1600-2000:1 for crisp, detailed images and low black levels. A suite of high-quality lenses specifically designed to increase image sharpness, gives you impeccable control over your images.

The addition of a yellow notch filter creates greater separation between the primary colors, enhancing the Christie HD2Kc, HD5Kc and HD7Kc models with richer color depth.

CHRISTIE®

The Christie HD Series offers a native HD format combined with high resolution, high brightness and a compact package – for applications where image quality, color and clarity are paramount. When the images need to speak volumes, the Christie HD Series delivers high brightness, excellent color and detailed displays.

Display technology

With low maintenance and highly reliable DLP® technology, the Christie HD Series delivers:

- High brightness
- Unsurpassed color
- Brightness uniformity and
- Control capabilities in a native widescreen format

Image quality

The 3-chip 1080p engines are driven by Xenon illumination and deliver superior image quality, repeatability of colors and, the ability to edge blend and tile images – whether multiple projectors on a single screen, or multiple screen displays. The addition of a yellow notch filter in the Christie HD2Kc, HD5Kc and the HD7Kc models allows greater separation between primary colors for richer color depth and a film-like color experience.

Proven 10-bit native HD processing

Utilizing the proven 10-bit processing that's in our 2K resolution products, the Christie HD Series of projectors continues to exceed customer expectations in image quality and reproduction. High bandwidth supports additional functionality such as Picture in Picture and seamless switching between sources.

Serviceability

Operation and maintenance of the Christie HD Series is easy as well. Field-alignable DMDs and a cleanable optical engine put full control in the hands of the user. Replacement lamp costs are low and Christie offers the best warranties on the market – 2 years parts and labor (including light engine). With the addition of a dust-sealed DMD system, your maintenance remains low with Christie HD products.

Ease of use

High performance optics with a wide range of lenses allows for use in multiple types of installations. The intuitive menus, easy lamp and filter access, as well as the reliability instilled by field-proven power and processing components, are all designed to give the user peace of mind.

High performance

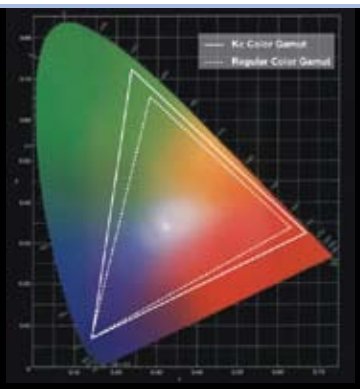
Christie-designed electronics with HD 4:4:4 capabilities and Digital Black Level control that can be used with built-in edge blending are key strengths that this product family brings with it. Additional features include seamless switching, Picture in Picture, LiteLOC™ and the ILS™ (Intelligent Lens System) for zoom and focus. The built-in RJ45 networking port also allows the 1080p HD family to utilize ChristieNET™ for monitoring and control to give the user complete asset management. The video processing, with artifact-free video and excellent color and contrast, will produce unparalleled images.

Sealed light engine

The light path is a critical element in the performance of a projector. Contaminants not only degrade performance in terms of the image quality but also effect costs relative to maintenance and service. Christie projectors provide a sealed light engine to minimize the effects of dust and smoke.

Enhanced power

Christie RoadTools™ is a FREE robust suite of software tools that enables users to set up systems faster, manage their projectors better and increase their productivity. RoadTools™ works with 3-chip DLP® and 1-chip DLP® projectors using Christie's exclusive KoRE™ technology electronics.



◀ Christie offers the Kc series of models with color correction to project richer colors and film-like experience.

◀ With 500W, 1.0kW, 1.2kW, 2.0kW and 3.0kW of power, the Christie HD Series features user-replaceable, pre-aligned Xenon lamp modules with adjustable lamp power for lower brightness. The stable color temperature over the course of the lamp life and the power range provides the best lamp technology for color matching across multiple screens.

▲ The Christie HD Series features the widest source compatibility and has built-in Ethernet networking for full compatibility with ChristieNET™ for total projector monitoring.

CHRISTIE®

◀ Stacking cages are available as options on the HD2Kc, HD3K, HD5Kc, HD6K, HD7Kc and the HD8K allowing for easy and fast stacking. Hybrid stacks are available for use between the HD Series and our Roadster models as well.

▲ Digital Fabric and Fuse Communication South Africa have utilized Christie cutting-edge projection in the renovation of the legendary De Beers 'Big Hole' – described as the world's deepest man-made hole – in Kimberley, South Africa.

The highlight is the use of audio-visual effects to simulate the underground experience, and the first deployment of the Christie HD8K projector (which is also the first-ever native HD resolution 3-chip projector). A spectacular upgraded rough diamond display, a viewing platform and interactive audio-visual displays all serve to enhance the visitor experience.

Digital Fabric were appointed as AV consultants after working in a similar capacity on the Cradle of Humankind project and striking up a good relationship with the design company Fuse Communication which continued into the Kimberley project. They were tasked with designing all the AV systems (including the underground element). Final surround sound specifications were decided by a team comprising Fuse Communication, Digital Fabric, and AV contractors Sonic Factory and Tadco.

The introductory 5.1 surround-sound theater presents a 15-minute film titled Diamonds & Destiny – run end-to-end in 1920 x 1080 HD

◀ A suite of specifically-designed lenses includes both fixed and zoom lenses ranging from the 0.67:1 through to the 6.9-10.4 and features a durable lens mount with motorized horizontal and vertical offset. With quick lens insertion, the Christie HD Series is easy to work with.

◀ Optional handles are available.

Competitive advantages

- True HD resolution (1920 x 1080)
- Smallest, high-performance 3-chip DLP® product – offers the pinnacle of image color accuracy and adjustability
- Xenon lamp system – provides repeatability of photo-realistic colors and ability to accurately color-match images
- True 10-bit processing – offers high-bandwidth signal processing
- Highest contrast – at 1600-2000:1 (via internal adjustable aperture)
- Brightest HD 3-chip DLP® in the world
- RoadTools™ (FREE)
- Sealed DMDs
- Best cost of ownership
- Broadest HD 3-chip DLP® line-up, ranging from 2300 lumens to 18,000 lumens

native resolution. It was shot on HDCAM especially for this attraction in a period theme, and edited and encoded locally to HDMPEG. The film is played from an Alcorn McBride DVM HD video server and projected from a Christie HD8K onto a wrap around, perforated screen from Harkness Hall.

The theater is barely 13m deep with a 10m x 5.625m screen which gives it almost IMAX proportions in the room. This size image could only have been done on HD and we are proud to have been the first consultants to specify the new Christie HD8K.

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	HD2Kc	HD3K	HD5Kc	HD6K
Image				
brightness	• 2300 ANSI lumens @ 500W [2550 center lumens] • 1600 ANSI lumens @ 350W [1785 center lumens]	• 2900 ANSI lumens @ 500W [3200 center lumens] • 2030 ANSI lumens @ 350W [2240 center lumens]	• 5000 ANSI lumens @ 200 VAC [5500 center lumens] • 3850 ANSI lumens @ 110 VAC [4250 center lumens]	• 6500 ANSI lumens @ 200 VAC [7100 center lumens] • 5000 ANSI lumens @ 110 VAC [5500 center lumens]
contrast	• 1600-2000:1 (full on/off) • 400:1 min ANSI			
uniformity	• 90% brightness			
Display				
type	• 3-chip 0.95" DMD			
native resolution	• HD (1920 x 1080)			
Lamp				
type	• 500W CERMAX® Xenon pre-aligned lamp module		• 1kW CERMAX® Xenon pre-aligned lamp module	
life	• Up to 2500 hours @ 500W • Up to 4000 hours @ 350W		• 1500 hours (typical) lifetime	
Input				
signal compatibility	• HDTV formats VGA through to QXGA (2048 x 1536) • Accepts all current HDTV/DTV formats • Multi-standard video decoder • Horizontal and vertical scaling, all inputs			
pixel clock	• 210 MHz			
scan rates	• 15 kHz to 120 kHz Horizontal • 23.97 Hz to 150 Hz Vertical			
Inputs, control and networking	• RGBHV/YPbPr via 5 BNC • DVI-I – digital/analog RGB/YPbPr (HDCP) • One composite video, one S-video • Two optional slots for analog/digital modules • 2 RS-232 ports, 1 GPIO port, 1 RS-422 port • On-board ChristieNET™ connectivity (RJ45) • Built-in backlit keypad and IR remote control			
Optical system	• Dust sealed, 3-chip DMD light engine • Motorized horizontal and vertical lens offset • Scheimpflug (tilt) adjustment • Built-in light shutter • Tool-free lens insertion system			
Lens options				
fixed	• 0.67:1*, 1.1:1			
zoom	• 1.16-1.49:1, 1.4-1.8:1, 1.8-2.6:1, 2.6-4.1:1, 4.1-6.9:1, 6.9-10.4:1			
offsets	• ±120% Vertical • ±42% Horizontal • (* ±50%V ±20%H)			
Accessories				
standard	• IR keypad (w/batteries) • Line cord • User manual • Input modules – Dual SD/HD-SDI, DVI			
optional	• Christie Twist™ image warping and edge-blending module • Input modules Dual SD/HD-SDI, DVI and legacy interface modules • Wired remote control and RS-422 • Remote IR sensor • Ethernet, RS-232, RS-422 cables • Service manual • KoRE™ 10-bit librarian • Lens adapter (can be used with competitors lenses) • Stacker • and more (see accessories brochure)			
Enhanced feature sets	• LiteLOC™ • Film-like color reproduction with Kc models • Comprehensive Color Adjustment (CCA™) • User replaceable bulb in Roadster models • Intelligent Lens System (ILS™) for zoom and focus on the zoom lenses • Built-in edge blending • Menus in five languages • 50 channel memories • Auto setup • Digital keystone correction			
Power requirements				
operating voltage	• 100 VAC to 240 VAC ± @ 50/60 Hz			
operating current	• 10A @ 100 VAC / 5A @ 200 VAC		• 10.4A @ 100 VAC / 8A @ 200 VAC	
power	• 879W maximum		• 1600W maximum	
dissipation	• 3000 BTU/hr		• 5460 BTU/hr	
Dimensions				
size	• (LxWxH): 22.3 x 26.0 x 12.32" (566 x 660 x 313mm)			
volume	• 7132 in^3 (116,924 cm^3)			
weight	• 72 lb (32.1 kg)		• 75 lb (34 kg)	
shipping weight	• 115 lb (52 kg)		• 120 lb (54.4 kg)	
Operating environment	• Temperature: 40 to 95° F (5 to 35° C) • Humidity: 20-80% non-condensing			
Regulatory approvals	This product conforms to the following regulations related to product safety, environmental requirements and electromagnetic compatibility (EMC): • FCC Part 15, Subpart B Class A; CISPR22/EN55022; CISPR24/EN55024 • UL 60950-1 First edition; CAN/CSA-C22.2 No 60950-1-03 First edition; • IEC60950-1:2001 • 2002/95/EC RoHS			
Limited warranty	• 2 years parts and labor (including light engine) • Contact an authorized Christie representative for full details of our limited warranty			

HD7Kc	HD8K	Roadster HD12K	Roadster HD18K
• 6500 ANSI lumens [7200 center lumens]	• 8000 ANSI lumens [8800 center lumens]	• 12,000 ANSI lumens (±10%) [13,200 center lumens]	• 18,000 ANSI lumens (±10%) [19,800 center lumens]
• 1600-2000:1 (full on/off) • 400:1 min ANSI			
• 90% brightness			
• 3-chip 0.95" DMD			
• HD (1920 x 1080)			
• 1.2kW CERMAX® Xenon pre-aligned lamp module		• 2.0kW Xenon bubble lamp module	• 3.0kW Xenon bubble lamp module
• 1500 hours (typical) lifetime		• 1000 hours (typical) lifetime	• 750 hours (typical) lifetime
• HDTV formats VGA through to QXGA (2048 x 1536) • Accepts all current HDTV/DTV formats • Multi-standard video decoder • Horizontal and vertical scaling, all inputs			
• 210 MHz			
• 15 kHz to 120 kHz Horizontal • 23.97 Hz to 150 Hz Vertical			
• RGBHV/YPbPr via 5 BNC • DVI-I – digital/analog RGB/YPbPr (HDCP) • One composite video, one S-video • Two optional slots for analog/digital modules • 2 RS-232 ports, 1 GPIO port, 1 RS-422 port • On-board ChristieNET™ connectivity (RJ45) • Built-in backlit keypad and IR remote control			
• Dust sealed, 3-chip DMD light engine • Motorized horizontal and vertical lens offset • Scheimpflug (tilt) adjustment • Built-in light shutter • Tool-free lens insertion system			
• 0.67:1*, 1.1:1			
• 1.16-1.49:1, 1.4-1.8:1, 1.8-2.6:1, 2.6-4.1:1, 4.1-6.9:1, 6.9-10.4:1			
• ±120% Vertical • ±42% Horizontal • (* ±50%V ±20%H)			
• IR keypad (w/batteries) • Line cord • User manual • Input modules – Dual SD/HD-SDI, DVI			
• Christie Twist™ image warping and edge-blending module • Input modules Dual SD/HD-SDI, DVI and legacy interface modules • Wired remote control and RS-422 • Remote IR sensor • Ethernet, RS-232, RS-422 cables • Service manual • KoRE™ 10-bit librarian • Lens adapter (can be used with competitors lenses) • Stacker • and more (see accessories brochure)			
• LiteLOC™ • Film-like color reproduction with Kc models • Comprehensive Color Adjustment (CCA™) • User replaceable bulb in Roadster models • Intelligent Lens System (ILS™) for zoom and focus on the zoom lenses • Built-in edge blending • Menus in five languages • 50 channel memories • Auto setup • Digital keystone correction			
• 200 VAC to 240 VAC ± @ 50/60 Hz			
• 10A @ 200 VAC		• 15A @ 200 VAC	• 14.8A @ 264 VAC
• 2000W maximum		• 3000W	• 3900W
• 6825 BTU/hr		• 10,236 BTU/hr	• 13,320 BTU/hr
• (LxWxH): 22.3 x 26.0 x 12.32" (566 x 660 x 313mm)		• (LxWxH): 32.1 x 24.5 x 15.1" (814.8 x 631.4 x 384mm)	
• 7132 in³ (116,924 cm³)		• 11,875 in³ (197,555 cm³)	
• 80 lb (36.3 kg)		• 135 lb (61.4 kg)	• 160 lb (72.6 kg)
• 125 lb (56.7 kg)		• 160 lb (72.6 kg)	• 230 lb (104.3 kg)
• Temperature: 40 to 95° F (5 to 35° C) • Humidity: 20-80% non-condensing			
This product conforms to the following regulations related to product safety, environmental requirements and electromagnetic compatibility (EMC): • FCC Part 15, Subpart B Class A; CISPR22/EN55022; CISPR24/EN55024 • UL 60950-1 First Edition; CAN/CSA-C22.2 No 60950-1-03 First edition; • IEC60950-1:2001 • 2002/95/EC RoHS			
• 2 years parts and labor (including light engine) • Contact an authorized Christie representative for full details of our limited warranty			

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