

# Matrix Series

- Air traffic control simulation
- Flight simulation
- Heavy machinery simulation
- Vehicle operation
- Ship bridge simulation
- Homeland security
- Operations training
- Construction
- Architecture
- Engineering



True-to-life simulation

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For the most current specification information, please visit [www.christiedigital.com](http://www.christiedigital.com)

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**CHRISTIE**

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Christie simulation and training solutions

There's much more to an integrated simulation solution than just the display, but it is the measurable end result – having world class Christie projection technology as part of the overall solution gives you a definite advantage. If true-to-life visual displays are crucial to your training simulation, then the Christie Matrix Series is your best possible choice.

The goal for high performance simulation is to accurately and consistently replicate an environment where trainees can safely practice routines and tasks that can't be repetitively performed in the real world. Christie understands the big picture. We have the expertise in the market, an understanding of how the simulators are used and what you need to do with the display. Christie offers exceptional products, industry know-how and vast experience in one complete, integrated solution.

The challenge – no single projector has enough resolution to accomplish this task. Factors such as geometry, image blending and warping, resolution, color and brightness uniformity, latency and overall reliability and sustainability are key criteria that must be addressed when designing integrated solutions. The Christie Matrix Series and Christie Matrix StIM™ provide the tools so customers can scale their displays into large arrays to achieve high resolution over wide fields of view, while providing reliability, long life, quality and ease of use.

The Christie Matrix line employs two alternative illumination technologies: arc-lamps and LEDs. Our lamp-based Christie Matrix Series projectors can be found on pages 3-6, with the technical specifications included on page 10. Pages 7-8 describe the Christie Matrix StIM, our LED-based system, with the technical specifications included on page 9.

Christie – changing the way you view simulation.

**Christie Matrix Series – 3-chip DLP® WUXGA, HD and SXGA+ models**

Designed and engineered for complex blended arrays where color matching and uniformity are critical, the Christie Matrix Series also offers WUXGA (1920 x 1200), HD (1920 x 1080) and SXGA+ (1400 x 1050) resolution projectors. This series delivers the highest consistent performance utilizing DLP® technology – the best solution for simulation environments where clarity of fast moving content is critical.

The small compact series' design includes built-in geometric warping and edge-blending capabilities, and unique proprietary purpose-built features that create scalable, high resolution displays. A broad range of specifically-designed high performance lenses, optional input modules, mounting systems and customized structures, networking capability and other peripherals provide the flexibility you need for your unique application. All Christie Matrix Series projectors are engineered for use in motion platform simulation systems.

**Display technology**

Built on high-quality DLP® technology the Christie Matrix Series SX+, HD and WUXGA models are highly reliable and will accept signals from VGA to QXGA (2048 x 1536) resolution. With proven reliability, high brightness, excellent color and brightness uniformity and display control coupled with ease of use and low maintenance, the Christie Matrix Series exceeds simulation market requirements for projection display. As well, this proven digital technology is low maintenance with over 650,000 hours Mean Time Between Failure (MTBF) and completely compatible with 4:3, 5:4 and 16:9 content.

**High quality graphics and image processing**

Christie's simulation display solutions present a faithful reproduction of the source – a true-to-life view of the training environment. With 10-bit image processing, the Christie Matrix Series offers high bandwidth signal processing for excellent reproduction of the source without motion artifacts, smearing or additional latency. For added ease of blending in tiled applications, Digital Black Level Adjustment (DBLA™) lets you match the blended black levels with the non-blended black levels.

Powered by Xenon illumination, the Christie Matrix Series WUXGA, HD and SX+ models offer superior image quality and the ability to color-match multiple projectors for extremely bright, color-rich, uniform images – whether multiple projectors on a single screen, or multiple tiled screen displays.

A Color Purity Filter (CPF™) enables enhanced color saturation, color matching and superior black levels for unsurpassed day and night scene blending.

**High contrast, low black levels**

A high contrast ratio and the capability of low black levels are necessary for the accurate display of night mode simulation scenes. An extended iris option further improves aperture range and provides even more realistic night scene operation.

**Ease of use**

A user-friendly Graphic User Interface (GUI) makes operation and set-up of these projectors uncomplicated. Multiple control options let the user choose what's best for their application – built-in, IR and wired remote keypad; RS-422 or RS-232 control; or via an Ethernet port. Motorized lens functions provide power focus, zoom, horizontal and vertical offset – all at the touch of a button. Auto set-up recognizes sources and sets up correct brightness, contrast and position.

**Serviceability**

Operation and maintenance of the Christie Matrix Series is easy as well with lower power consumption, fewer lamp changes and less down-time. 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 (excluding lamp).

**Unique series features**

**Color Temperature Control (CTC™)**  
Provides the flexibility to adjust color temperature with a range from 3200-9300K for finite control over color uniformity.

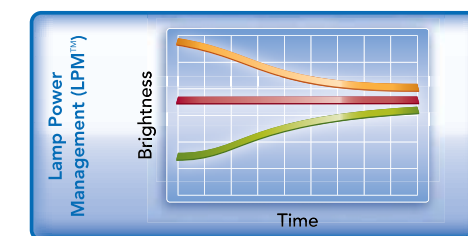
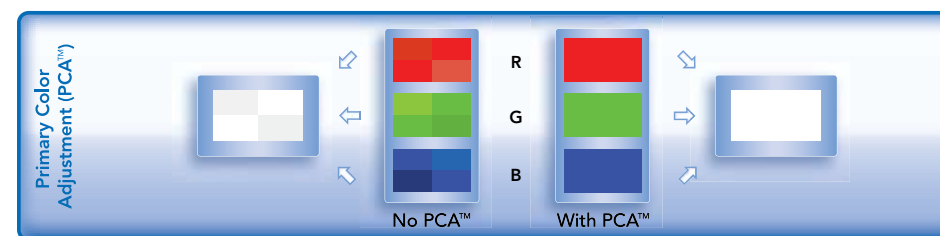
**Primary Color Adjustment (PCA™)**  
Provides individual RGB color matching for multi-channel applications to eliminate color variations across multiple screens for uniform, color-matched projector arrays.

**Minimum Processing Latency (MPL™)**  
With less than a single frame of the propagation delay between projector input and display, the result is sharp, vibrant images. Minimum delay between input and projection display is critical to simulate real-time interaction between trainee and simulation imagery.

**SuperCR™ contrast ratio**  
With the internal variable contrast aperture, contrast ratios range from 1500-5000:1 for vivid, dynamic image reproduction and low black levels for accurate night-scenery mode.

**Color Purity Filter (CPF™)**  
Enables superior color for both dark scenes in night time simulation and bright scenes in daytime simulation.

**Lamp Power Management (LPM™)**  
Provides users with the ability to adjust power to the lamps for a consistent and uniform brightness, to monitor and manage the lamp operation in the display. Brightness adjustments can be made from center to edge across the image up to 100% uniformity.



■ Natural lamp brightness ■ Constant regulated brightness ■ Lamp power

▼ The Christie Matrix Series features user-replaceable lamp modules with adjustable lamp power for lower brightness.

▼ With an extremely high SuperCR™ ratio of up to 2000:1 full field – with the motorized IRIS, you can adjust for high contrast ratio and better black levels, for any given application.

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



◀ The Christie Matrix Series features the widest source compatibility and has built-in Ethernet networking for full compatibility for projector monitoring and control capabilities.



Christie AccuFrame™



Full Christie AccuFrame™



No Christie AccuFrame™

The unique advanced electronics in all Christie Matrix projectors and the Christie Matrix StIM comes standard with Christie AccuFrame™ to accurately display high speed simulation content for the most true-to-life displays.

An industry first, Christie AccuFrame was developed specifically for the simulation market. It is able to nullify image artifacts (such as smearing or double image perception) in high speed simulation. A fully adjustable electronic solution to >6ms, it supports various frame rates and environments, delivering the most accurate frame display. Tested against other types of projection systems Christie clearly 'owns the night' with stimulated NVG compatibility and the most realistic viewing.

- Christie AccuFrame enables the removal of any perceived "double imaging" of content due to image frame perception in the eye.
- Our Christie Matrix line offers accurate frame display for Non-CRT projectors for use in fast simulation environments.
- Fully adjustable to support various frame rates and environments.

▼ Image warping and enhanced edge-blending with Christie Twist.

Christie Twist™ – manage arrayed projectors easily

Christie Twist™ is a powerful, easy-to-use option that allows users to manage arrayed projectors to display virtually any image, anywhere.

This tool allows for pixels to be mapped to any projection surface with proper geometry and perfect pixel to pixel alignment. Christie Twist provides the enhanced warping and expert blending required for multiple projectors to operate as a single, uniform display. Controlled by an easy-to-use Graphic User Interface, users can expertly control and edge blend multiple curved images seamlessly. Images can be warped to fit virtually any dimension or shape display.

Christie Twist software features	Basic	Pro
Custom warping, edge-blending of multiple projectors (up to 6 projectors)	●	●
Display control points and warp lines on projector	●	●
Add, delete, copy and paste multiple warps and blends on a single projector	●	●
Module with included operating software	●	●
Easy to use GUI that runs on an external PC	●	●
Allows up to a 10' x 10' grid	●	●
Control from any PC via Ethernet or RS-232 protocols	●	●
Includes Christie Twist Virtual Remote	●	●
Blends are defined with a black and white curve pair for each edge of the screen	●	●
Masks are defined with a mask curve for each edge of the screen	●	●
Has a blend calculation feature	●	●
Contains online help and printed manual plus an electronic PDF version on the CD	●	●
Single license of Christie Twist Pro		●
Supports single or multiple projectors simultaneously		●
Allows an unlimited and arbitrary number of grid lines		●
Advanced edge-blending		●
Gradient preview of edge-blends		●
Brightness uniformity control		●
Display control points and warp lines on projector		●
AutoSave		●
Projector control through Christie Twist software interface		●

Christie Twist™ Pro

An optional upgrade, Christie Twist Pro software offers the following additional capabilities:

- Single license supports an unlimited number of projectors per array
- Allows an unlimited and arbitrary number of grid lines
- Advanced edge-blending
- Rotate and flip capabilities
- Gradient preview of edge blends
- Brightness uniformity controller

Christie TrueIMAGE™ integration

In today's world, diverse and highly technical visual solutions are applied to solve some of the key issues and challenges facing global scientific and manufacturing communities. Because each and every application is different, and a "one type fits all" display is not the answer, we developed Christie TrueIMAGE™ integration solutions – customizable, reliable and efficient tools designed to meet the most demanding requirements of blended projection arrays.

Christie TrueIMAGE integration solutions offer:

- Reduced location resource requirements
- Increased customer independence in terms of display maintenance
- More realistic displays
- Enhanced visual performance of the complete system
- Optimized displays
- Christie AutoCal™ – automatic display system calibration

Both the Christie Matrix Series and the Christie Matrix StIM are supported by Christie TrueIMAGE integrated solutions.

Christie AutoCal™

With Christie AutoCal™ you have expert image display adjustment capabilities at your fingertips. A simple check box interface makes interaction user-friendly allowing users to re-calibrate both geometry and blending with unequalled accuracy.

Christie AutoCal calibrates virtually any arrayed projection display, from flat to cylindrical to spherical, and adjusts it to its optimized viewing configuration for precision pixel alignment and consistency in the content. The result – you spend more time using your display, not maintaining it.

Christie Advanced Color™

Christie Advanced Color™ is a user-assisted tool that enables advanced color matching from simple to complex arrays, regardless of the level of experience.

Using a precision light meter, computer and software with a simple user interface, the operator is automatically guided to point the meter at the screen and data is fed into the computer. Looking at each individual projector, the calibration camera captures information about projector performance and feeds it into the color calibration processing. The computer performs the calculations and places the color mapping information on the projectors – that information stays on the projector until you choose to re-tweak the system.

Christie MotoBlend™

Day or night, dark or light applications, why compromise your display system? Developed using our extensive experience with dynamic content, Christie MotoBlend™ helps maximize the best of both worlds when it comes to life-like images and DLP® based displays and environments – system contrast and optimized dark scene applications.

Christie's motorized optical blending ensures your dark scene content (such as nighttime training applications) is evenly maintained across the entire display, without any residual light distractions or artifacts that can be found in other manufacturer's digitally projected displays.

Designed for use in static or motion platform applications, Christie MotoBlend is engaged or disengaged depending on the intensity of the image. Christie's motorized optical blending preserves your systems maximum contrast ratios at all times as well as maintains optimum blends for all types of content.



No Christie MotoBlend



Christie MotoBlend engaged



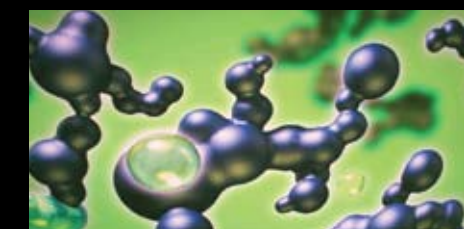
No LiteLOC™



LiteLOC™



Before Christie AutoCal



After Christie AutoCal

A major breakthrough in simulation.

No matter how you look at it.

# CHRISTIE MATRIX StIM™

The Christie Matrix StIM™ is a true game-changer. It is the first simulation system to provide simultaneous and independent control over both the visible and near-IR spectrum using LED illumination. It is an intelligent projection system which enables real-time balancing and optimization of color, brightness and black levels on a frame-by-frame basis. And it is the first system designed for simulation and training with solid state LED illumination – there are no consumables for a virtually maintenance-free system.

The Christie Matrix StIM is a scalable environment display system that provides the unique capabilities of achieving eye-limiting resolution while stimulating Night Vision Goggles for revolutionary new capabilities in NVG training. The unique lamp-less illumination system of the Christie Matrix StIM offers unprecedented stability, reliability and years of continuous operation. Designed and engineered with Christie expertise, this system features extraordinarily long life, quality and ease of service.

Built on an inherently stable long-life platform that doesn't use polarization filters or fade over time, Christie offers a unique lamp-less illumination system for unprecedented stability and reliability. With no consumables, low heat, low power consumption, full RoHS compliance and years of continuous operation, the Christie Matrix StIM is a virtually maintenance-free, environmentally-friendly simulation system.



If a simulation trainer goes down, the amount of time lost can directly translate into fewer training hours, lower quality training and higher maintenance costs – and lost revenue. Based on a 3-channel display running 8 hours per day, 5 days a week and operating for a duration of 11 years, only the Christie Matrix StIM™ provides a virtually maintenance-free lifetime on the display. With 50,000 hrs MTBF on the illumination package, no moving parts, no lamps or filters to change – the Christie Matrix StIM is virtually maintenance-free. High MTBF and ease of support provide a near order-of-magnitude savings in sustainment cost.

## Display technology

At the core of the projector is a single DMD with 650,000 MTBF. When combined with solid state illumination, it provides unmatched picture reliability along with a filter-free design for a low total cost of ownership. A reliable, accurate picture that will stand the test of time.

Unlike other standard single-chip DLP® projectors, with LED illumination there is no color wheel. No color wheel means no rainbow, or strobe effects, no artifacts and higher reliability for overall projector performance.

## Processing

An industry first, Christie has developed a unique capability of processing and displaying infrared content for true-to-life night vision goggle stimulation called InfraScene™. The unique infrared function in the Christie Matrix StIM allows for the simultaneous display of both visible light and infrared projection from a common display engine. The Christie Matrix StIM can display a true night scene simulation experience with simultaneous accurate stimulated infrared signatures.

## Contrast

A scalable, arrayed simulation system that creates practical, high resolution display systems, the Christie Matrix StIM produces an extraordinary dynamic contrast ratio. Real-time modulation of the LEDs allows new levels of flexibility and system performance unachievable with current digital projection technology.

## Serviceability

Built on an inherently stable long-life platform that doesn't use polarization filters or fade over time, Christie offers a unique lamp-less illumination system for unprecedented stability and reliability. With no consumables, the Christie Matrix StIM provides years of continuous operation. Very low power consumption directly translates to lower operating heat, less cooling requirements and cost savings in electricity for an extremely low sustainment cost.

## Ease of Use

Another industry first, Christie ArrayLOC manages brightness and color space as well as the black levels of all projectors within an array in real time, with no additional latency. The Christie Matrix StIM creates stunning content and an unprecedented level of display solution stability and reliability. There's no need to re-balance the display and no lamp changes are required.

## Unique features

### Christie InfraRGB™

Unique InfraRGB™ illumination removes the restrictions of a lamp. The projector can be oriented in portrait, landscape or anywhere in between to more optimally cover the overall display. The projector can be mounted on any one of five sides, including the back. Greater installation flexibility is achieved. Can be built into installations with limited access – no routine maintenance is required.

### Christie InfraScene™

Independent control of both the visible and infrared image supports the simultaneous display of both visible light AND the IR spectrum. This creates a practical, deployable, real-world simulation system that enables new simulation capabilities such as training with real NVGs.

### Christie ArrayLOC™

Intelligent image display – synchronized, real-time color, brightness and black level balancing reduces the amount of time, labor and costs associated with maintaining a simulation display.

### Minimum Processing Latency (MPL™)

With less than a single frame of propagation delay between projector input and display, the result is realistic, real-time simulation. This is critical to simulate real-time interaction between trainee and simulation imagery.

▼ With its lamp-less design, the Christie Matrix StIM can be mounted in any orientation. With InfraRGB™ technology and a 50,000 MTBF on the illumination package, the Christie Matrix StIM features years of continuous operation. And, the Christie Matrix StIM fully supports Christie AccuFrame.

▼ Customer-driven, the Christie Matrix StIM is the first arrayed simulation system – designed as an intelligent display system that self-adjusts brightness, color and black levels in real-time.

▼ The modular architecture allows for a compact, lightweight projector head with low power and low heat. Since the electronics module may be mounted at the projector head or remotely, the Christie Matrix StIM also features low noise.



Christie Matrix StIM WUXGA (1920x1200) single DMD		
Image	brightness	• 600 lumens ±10% (rated at 75-80% EBU depending on the lens)
	contrast	• 10,000:1 dynamic contrast (optimized in real-time based on scene content) • No mechanical iris required
	uniformity	• >95% brightness and color uniformity after electronic adjustment
Display	type	• Revolutionary solid state projector using a single TI Darkchip 3™ DMD with a solid state illumination engine (no color wheel) and sealed optics
	native resolution	• Native 1920 x 1200 (16:10 aspect ratio) WUXGA
Lenses*	fixed	• 0.64:1 WUXGA fixed IR and visible light optimized lens
	zoom	• 1.2-1.6:1 WUXGA zoom IR and visible light optimized lens
	offsets	• 0.64:1 lens features ±5% (horizontal) and ±5% (vertical) offset when mounted in landscape orientation • 1.2-1.6:1 lens features ±75% (horizontal) and ±100% (vertical) when mounted in landscape orientation**
Optical system	lens mount	• Mechanical, horizontal and vertical lens shift • Tool-less lens insertion system • 3 point 60 degree bore sight adjustment • No shutter required • No iris required – user programmable illumination parameters (eliminates the need for a mechanical shutter)
	illumination	• Full spectrum InfraRGB™ (RGB + IR LEDs) • Illumination package has a MTBF of 50,000hrs • Light module can be changed in 15 minutes and is color and bright level matching in real-time to the projector array
	ArrayLOC	• Manages the brightness, color space and black levels of all projectors within an array to a common level, in real-time with no additional latency
Input	signals	• Native 1920 x 1200 recommended, up to 1920 x 1200 native WUXGA
	pixel clock	• 165MHz max input
	scan rates	• Horizontal: 15-120KHz • Vertical: 23.97-60Hz
Inputs, control and networking		
• DVI-D and HD15 analog standard • On-board Ethernet control capabilities (ChristieNET functionality) • Additional Ethernet connections for ArrayLOC network • IR/wired remote control as part of optional user kit • 2 – RS-232 ports and 1 RS-422 port • Optional analog input card • Optional DVI-D input card • Optional HDSI input card • Optional electronics module for dedicated IR image generator		
Accessories	standard	• Line cord
	optional	• Analog RGBHB input card • DVI-D input card • HDSI input card • Electronics module for dedicated IR image generator • Remote IR sensor • User kit (includes manual, IR remote) • Rugged Motion Platform user kit (purpose-built)
Enhanced feature sets		
• Minimum Processing Latency (MPL™) • Christie Twist II – Advanced warping/edge-blending hardware technology integrated directly into the projector, includes warping/blending software • Auto set-up, power up • Menus in 5 languages • AccuFrame adjustable to <5ms • Multiple channel memories (for recall memory storage) • Christie ArrayLOC – automatic, continuous management of brightness, color space and black levels of all projectors in the array to a common level, in real-time • Christie InfraScene™ – the capability of the simultaneous display of both visible light and infrared projection		
Power requirements	operating voltage	• 100-240 VAC @ 50/60Hz
	operating current	• Estimated max – 5.6A @ 100 VAC, 2.8A @ 200 VAC
	power	• 400W max (variable, dependant on content)
	dissipation	• 1364BTU/hr
Dimensions	size	• Projector head module + light module (no lens): (LxWxH): 8.7 x 18.4 x 11.0" (220 x 467 x 287mm) • Electronics module: (LxWxH): 16.5 x 5.5 x 6.7" (420 x 140 x 170mm)
	volume	• Projector head module + light module (no lens): 1,761in³ (29,486cm³) • Electronics module: 608.0in³ (9,963.3cm³)
	weight	• Projector head module + light module (no lens): 35lb (15.9kg) • Electronics module: 9.7lbs (4.4kg)
	shipping weight	• 72lb (32.7kg)
	Operating environment	• Temperature: 40-95° F (5-35° C) • Humidity: 20-80% non-condensing • Noise: less than 38dBA estimated
Regulatory approvals	• UL/CSA/IEC 60950-1 • EMC-emissions: FCC part 15 and EN55022 (CISPR22) Class A • EMC-immunity: EN55024 • RoHS compliant	
Limited warranty	• 2 years parts and labor • Contact an authorized Christie representative for full details of our limited warranty	

	Christie Matrix Series WUXGA (1920 x 1200) – 3-chip 0.96" DMD		
	Matrix WU2	Matrix WU5	Matrix WU12
Brightness	• 2400 ANSI lumens (±10%)	• 5100 ANSI lumens @ 220 VAC (±10%) • 4100 ANSI lumens @ 120 VAC (±10%)	• 1500-2000:1 full field typical (1300:1 min)
Contrast	• 1500-2000:1 full field • 450:1 min ANSI	• 1500-2000:1 full field • 450:1 min ANSI	• 1500-2000:1 full on/off • 450:1 ANSI
Weight	• 75lb (34kg)	• 75lb (34kg)	• 140lb (64kg)
Shipping weight	• 120lb (54kg)	• 120lb (54kg)	• 165lb (75kg)
Size (LxWxH)	• 22.3 x 26.0 x 12.3" (566 x 660 x 313mm)	• 22.3 x 26.0 x 12.3" (566 x 660 x 313mm)	• 32.1 x 24.5 x 15.1" (814.8 x 631.4 x 384mm) (excludes lens, feet, stacking points)
Lamp type	• 500W CERMAX® Xenon pre-aligned lamp module	• 1.0kW CERMAX® Xenon pre-aligned lamp module	• 2.0kW Xenon pre-aligned lamp module
Lamp life	• 1500hrs (typical)	• 1500hrs (typical)	• 1000hrs (typical)
Power	• 100-240 VAC (±10%) @ 50/60Hz	• 100-240 VAC (±10%) @ 50/60Hz	• 200-240 VAC (±10%) @ 50/60Hz
Power consumption	• 1000W max	• 1600W max	• 3000W max
Thermal dissipation	• 3412BTU/hr	• 5460BTU/hr	• 10,236BTU/hr
Operating current	• 10A @ 100 VAC • 5A @ 200 VAC	• 10.4A @ 100 VAC • 8A @ 200 VAC	• 15A @ 200 VAC
Inputs, control, networking	• RGBHV/YPbPr: 5 BNC • DVI-I: digital/analog RGB/YPbPr (HDCP) • One composite video, one S-video • Two option slots for analog/digital modules • 2 RS-232 ports and 1 RS-422 port • On-board ChristieNET™ connectivity (RJ45) • Built-in backlit keypad and IR remote control		
Standard accessories	• IR keypad (w/batteries) • Line cord • Christie Twist image warping module with enhanced edge-blending • User manual		
Optional accessories	• Fixed lenses: 0.67:1, 1.2:1 • Zoom lenses: 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 • Input modules – Dual SD/HD-SDI, DVI and legacy interface modules • Wired remote control • Remote IR sensor • Ethernet, RS-232, RS-422 cables • Service manual • KoRE™ 10-bit librarian • Lens adapter (for competitive lenses) compatible with selected 3rd party switchers		

Other models in SXGA+ (1400 x 1050) and HD (1920 x 1080) are available – contact your Christie sales representative.

**Regulatory approvals (applicable to all projectors)**

These products conform 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
- CCC\*
- 2002/95/EC RoHS

\* Some models still pending CCC approvals – contact your Christie sales representative.

**Ruggedized/Build to order**

Several of our models will be available on a build to order basis and can include ruggedization for use on motion platforms. For details, please contact your Christie sales representative.

For full product specifications on all our Matrix Series models, please visit our website: [christiedigital.com](http://christiedigital.com)



Performance specifications are typical and are subject to change without notice.

\*0.75:1, 1.0:1 and 1.8-2.6:1 lenses planned for production 2010

\*\*Note: Each offset is specified with the other at zero. Simultaneous horizontal and vertical offsets may limit the adjustment range of each.