# CHRISTIE ChristieTWIST™

## *The Ultimate Tool for Total Image Control*

**Applications**

Simulation

3D/Virtual Reality

Entertainment

Rental/Staging

In today's world of complex, large-scale datasets, display requirements vary greatly, depending on the application. These unique environments require solutions that address specific demands and considerations. With ChristieTWIST™, Christie's new image warping and edge-blending module, you can display virtually any image on any surface.

Designed with end-user applications in mind, ChristieTWIST™ provides fingertip control to expertly edge-blend multiple non-linear images on all four sides seamlessly. Images can be warped to fit any dimension or shape. And the multiple blend and warp properties can be stored on the projector – providing easy access and immediate recall of settings.

For high-quality, larger-than-life displays, the Primary Color Adjust (PCA™) and input/output gamma correction produce exact color matching between displays. With an extremely fine level of control of the warping grid, users can map pixel locations precisely for absolute geometric accuracy. Warp to any shape or surface – curved or spherical screens and anything in between. ChristieTWIST™ features an user-defined warp grid, easy-to-use software with latency of less than one frame.

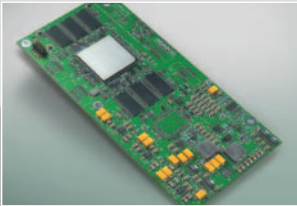ChristieTWIST™ – the ultimate in total image control.

# ChristieTWIST™

## Specifications



*Edge-blend multiple projectors with user-defined grid and expertly control the blended image through PCA™ and gamma correction.*
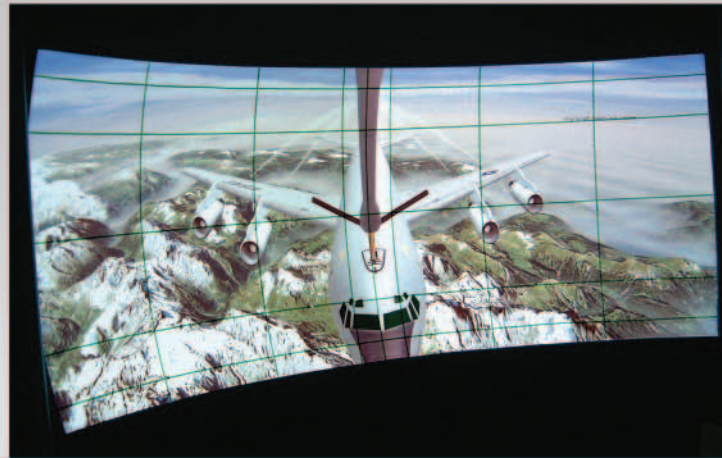


*Pre-distort an image through the extremely fine level of control of the grid by mapping precise pixel locations – an important factor for simulation where the highest levels of geometric precision are required.*



*ChristieTWIST™ Pro image warping and edge-blending module.*

**ChristieTWIST™** has an easy-to-use GUI that runs on an external PC and enables users to configure many of the features of the hardware board. Once the warping and blending grids are set for multiple projectors, the properties can either be stored on the projectors or on the external PC.

An optional upgrade, the ChristieTWIST™ Pro supports simultaneous warping/blending/masks on multiple projectors and allows an unlimited and arbitrary number of grid lines (up to and beyond a 10' x 10' warping grid). It also displays the warping grid and identifies warp control points through a test pattern generated in the projector.



*ChristieTWIST™ Pro supports multiple projectors and offers "auto-save" option that allows users to automatically save work-in-progress directly to the projector.*

| CHRISTIETWIST™ SOFTWARE FEATURES | BASIC 1.0* | PRO 1.0** |
|---|:---:|:---:|
| Allows warping, blending and masking of projectors with a ChristieTWIST™ module installed | ✔ | ✔ |
| Allows up to a 10' x 10' warping grid | ✔ | ✔ |
| Blends are defined with a black and white curve pair for each edge (top, bottom, left, right) of the screen | ✔ | ✔ |
| Masks are defined with a mask curve for each edge of the screen | ✔ | ✔ |
| Has a "Blend Calculation" feature that calculates the blend automatically from the current warp | ✔ | ✔ |
| Contains online help and a printed manual, plus an electronic PDF version is included on the CD | ✔ | ✔ |
| Supports one projector at a time | ✔ | ✔ |
| Supports multiple projectors – can warp/blend/mask multiple projectors simultaneously | | ✔ |
| Allows an unlimited and arbitrary number of grid lines (up to and beyond a 10' x 10' warping grid) | | ✔ |
| Display control points and warp lines on projector – a test pattern that is generated in the projector that shows the warp grid and identifies the warp control points | | ✔ |
| Auto save to projector – periodically save work-in-progress to the projector | | ✔ |
| Projector control – ChristieTWIST™ provides features normally available from projector menus (e.g. select test patterns, shutter projector, select input source, etc.) | | ✔ |

\* ChristieTWIST™ module comes standard with ChristieTWIST™ Basic 1.0 software.
\*\* ChristieTWIST™ Pro 1.0 software is a chargeable option available in Q1/06.

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

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ISO 9001:2000

QMI REGISTERED
I·Net CERTIFIED MANAGEMENT SYSTEM

Certificate # 601

# CHRISTIE

**WWW.CHRISTIEDIGITAL.COM**