



Real-Time Media Compositing

Christie Pandoras Box

You've got the skills. We've got the tools.

Christie® Pandoras Box is the award winning real-time video processing and show control system that gives users complete control over the entire workflow - from project conception to final realization.

Pandoras Box helps maximize efficiency and enables you to combine a virtually unlimited amount of creative possibilities with great usability and reliability. It's a powerful set of tools that enable the creation of amazing visual experiences.

One idea. One system. One successful production.

Product Highlights

Multi-User Control

Benefit from the combined efficiency of multiple operators. Split workloads into different tasks like warping, content encoding and timeline programming or simply work simultaneously on the same sequence.

Blind Programming / Blind Preview

Using the Multi-User feature, blind programming enables users to edit timelines without effecting the current video outputs. Changes to sequences can therefore be made with a full local preview without the risk of interfering with the live show.



Venue Site previsulization with UV-mapped 3D objects.

True 3D Environment

Christie Pandoras Box offers a true 3D compositing space in which both objects and plane elements can be aligned for projection mapping or real-time 3D stereo playback scenarios at high frame rates.

FX Engine & 3D Particle System

The Aeon effects engine enables users to create and combine an almost unlimited number of dynamic effects. FireFly allows for the creation of elaborate real-time particle effects in a true interactive 3D compositing space. Various emitters can be set up and applied with forces such as Wind & Gravity, synchronized across any number of outputs on multiple client systems.





EROS RAMAZOTTI TOUR 2010 - Video Design by Olivier Goulet

Interactive Content & Control

The preview window is the centralized control area for compositing, warping and any kind of content interaction. Additionally, the connected output devices, such as touch screens, can directly interact and trigger actions within the content.

Instant Warping / UV Mapping

The warping process and its features are directly integrated into the Pandoras Box render engine. Within the preview, the user has direct access to manipulate FFDs and vertices in a 3D space to match the projected image with the physical screen setup. Furthermore, UV maps can be edited on-the-fly to arrange content accordingly. Even perspective UV mappings can be realized by using the preview and its interaction modes.



Integrated warping tools within the Pandoras Box Preview.

Dynamic Web Browser

Any Pandoras Box layer can display HTML-based web content with full Java script support. Interactive content is easily used thanks to the layer mouse and touch input. The included Webserver allows direct Java script access to all SDK commands and functions.

FluidFrame Technology

FluidFrame is a groundbreaking signal processing algorithm that offers a smooth cross-conversion that can take any input and output framerate, supporting both interlaced and progressive sources and clips.



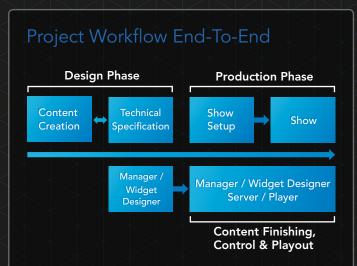
Editable Multi-View and sequence programming.

Console Mode & Advanced Patching

With the dynamic layer structures, users can easily add parameters and effects to any layer. In order to facilitate the control, users can start Pandoras Box in a dedicated console mode or simply create and extend the DMX library from within the interface. This means that any parameter can be individually patched.

ASIO Multi-Channel Audio

The Pandoras Box Manager Software supports ASIO audio interfaces and offers synchronized multi-channel audio playback. Both audio inputs and outputs can be delayed and freely routed to distinct or common channels.



Christie Pandoras Box closes the gap between the design and production phase, resulting in a perfectly aligned workflow environment.

Real-Time Media Compositing

Christie Pandoras Box Server

Creative. Scalable. Reliable.

Christie Pandoras Box Server is the flagship of the Pandoras Box suite. It combines the full feature software set with the flexibility and reliability of a powerful hardware platform for 24/7 use to fulfill all needs for maximum creative results.

It is a turnkey solution that perfectly unites state-of-the-art rendering technology with intuitive media and show control. A high-quality server featuring the most powerful and versatile render-engine offers real-time compositing in 3D and allows for projection onto any shape and any surface.

3D Projection Mapping / Object Import

Enjoy the ease of setting up 3D projection mappings by taking advantage of the flexible and cascaded 3D environment. Import and manipulate 3D objects to quickly arrange virtual cameras to match projector positions and orientations. For even faster setup times, a marker-calibration can be applied to aid the setup process.

Unlimited Video Layers / Effects

Unlimited video layers enable the user to structure the programming according to specific needs. Virtual three-dimensional lights apply realistic reflections and shadows to objects and plane elements. The unlimited amount of effects per layer or outputs underline the flexible advantage of a real-time compositing system.

Uncompressed Quality

Maintain the integrity and quality of your content. Pandoras Box Servers support up to 4K, uncompressed video playback at 60 fps.

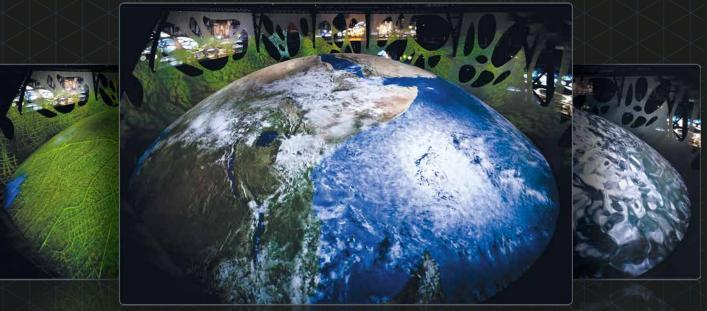


Supreme Video Resolution / High Frame Rate

Benefit from virtually unlimited Image Sequences and Videos within the Pandoras Box Server system. Extreme resolutions and unique image ratios are supported with no further need of conversion or splitting processes. High frames rates, like 120Hz, are perfectly synchronized within a single or multiple servers.

OCTO Server

For the most demanding applications, choose the Christie Pandoras Box OCTO Server. This hardware features increased output capabilities providing up to 8 outputs at full-bandwidth without compromising performance.



Scalable Hardware Playback Systems

Christie Pandoras Box Player

Versatile. Powerful. Robust.

The Christie Pandoras Box Player hardware combines the versatility of the software only solution with multiple outputs and industry leading graphics power. The Pandoras Box Player is a cost-effective solution perfectly suited for permanent installations and high definition multimedia displays.

Multiple Outputs and Powerful Features

With 8 video-layers, 8 FX per layer and unlimited graphic-layers, it is quick and easy to program and arrange content. The Aeon visual effects engine and 4K playback turn the Pandoras Box Player into a powerful tool for creative projection, design and installation projects.

Synchronized 4K Playback

The unique Pandoras Box network based adaptive frame synchronization feature allows multiple systems to run automatically in sync. An optional SMPTE Link interface can be used to sync to external sources.

2D Workspace

Featuring a 2D compositing pixel-based environment, Pandoras Box Player is ideal for image compositing and timeline programming. Blend, map and mask any surface with the built-in warping techniques to correct for off-angle distortions accurately on-the-fly.



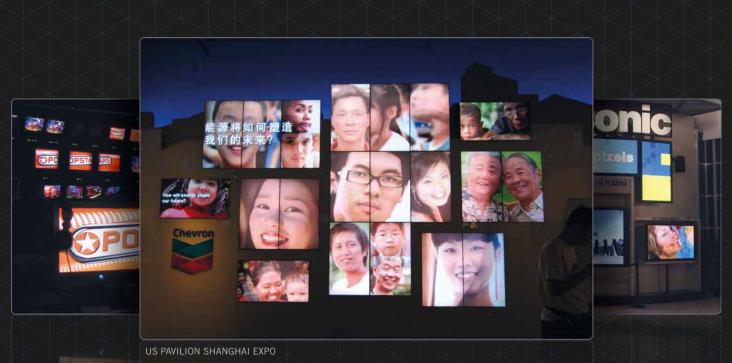
Christie Pandoras Box Player

Output Correction

Each output features multiple correction parameters for individual output configurations. The dynamic Aeon FX system allows for setting up individual effects and color correction per individual output. Warps and keystone corrections can be applied to the output as well as softedge maps.

Quad Output

Pandoras Box Player comes with up to 4 independent outputs which can be individually warped and blended. Mixed resolution setups are possible when different displays are needed.



Christie Pandoras Box Server and Player Systems

Output Channels

Pandoras Box Servers and Players provide a flexible output configuration with 1, 2 or 4 independent outputs. The OCTO Server is capable of delivering up to 8 independent outputs.

Each output can be individually warped and blended and allows for mixed resolution setups.

All Servers and Players feature NVIDIA Quadro GPUs and Intel XEON processors.

Hardware Performance Kits

PK1	480GB (Raid 1) storage with XEON processor
PK2	1.4TB (Raid 5) storage with XEON processor
PK3	3.4TB (Raid 5) storage with XEON processor
PK4	6.7TB (Raid 5) storage with XEON processor
PK5	14.4TB (Raid 5) storage with XEON processor*

All Servers and Players feature SSD storage and the latest hardware components for maximum stability and performance. Servers include dual Intel XEON processors, while players include a single Intel XEON processor.

Performance Kit 5 (PK5) is only available for Pandoras Box Servers.

Video Input Options*



Single 3G/HD SDI Supports all common 3G, HD & SD SDI formats.

Quad 3G/HD SDI Supports all common 3G,

HD & SD SDI formats.

Dual DVI Supports all DualLink DVI-I signals.



Dual 3G/HD SDI Supports all common 3G, HD & SD SDI formats.

Single DVI Supports all DualLink DVI-I signals.

Dual HDMI 2.0 / DP 1.2 Supports all HDMI / DP signals including 4K and 120fps. Available as Dual Input.

* Two Input-Boards can be configured per Server. Players can be equipped with a single Input-Board.



Single ADAT & Stereo XLR 1x ADAT digital I/O, supporting 192 kHz 1x SPDIF digital I/O, 192 kHz-capable 1x AES/EBU digital I/O, 192 kHz-capable Balanced stereo analog output 24bit/192kHz



Quad ADAT 4x ADAT digital I/O, supporting 192 kHz 1x SPDIF digital I/O, 192 kHz-capable 1x AES/EBU digital I/O, 192 kHz-capable Up to 32 inputs and 32 outputs can be used simultaneously



MADI 1x MADI I/O (optical and coaxial) 1x Stereo Analog Out Word Clock I/O Up to 64 inputs and 64 outputs can be used simultaneously

Framelock & Genlock Input



Output synchronization to enable multiple systems to synchronize frame rendering across multiple displays, plus synchronize one or many systems to a common sync source.

10 GB Ethernet



The optional 10GB Ethernet card offers two additional high-speed network ports for faster content and data transfer.

Flexible Playback Unit

Christie Pandoras Box Compact Player

Small Size. Great Performance.

Christie Pandoras Box Compact Player is an extremely versatile hardware-based media player that is small in size but great in performance, reliability and power.

Whether part of a cutting-edge digital signage installation, inside a modern museum, or even on board a cruise ship, the Compact Player is ideal for a variety of different professional playback scenarios.

The Compact Player's Playlist feature makes it easy to play multiple media files in a row without the need of programming separate containers on a timeline sequence.

An unlimited number of Compact Players can be centrally controlled and synchronized via network, using the Pandoras Box Manager Software.

Multiscreen installations and similar setups are also possible with multiple Compact Players.

The robust Compact Player was developed for professional 24/7 use and is built using server grade hardware.

Teatures

• 1U, 1/2 19" Racksize

- NVIDIA Quadro GPU
- 4x HDMI 2.0
- RS-232, WIFI, Bluetooth
- 4K Video Playback
- 4 Video Layers
- Unlimited Graphics Layers
- 2 Sequences

Outputs

The Compact Player comes with either 1 or 2 independent outputs. Each output can be individually warped and blended and allows for mixed resolution setups.

Hardware Performance Kits

PK1	480GB SSD storage
PK2	960GB SSD storage
PK3	1.9TB SSD storage

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Software Only Solutions

Christie Pandoras Box Software Player

Powerful. Visionary. Flexible.

Christie Pandoras Box Software Player offers an ideal, cost-effective software solution for professionals with multi-media requirements such as digital signage applications, corporate meetings and various architectural and artistic installations with limited budgets. A minimum of 4 video-layers and unlimited graphic-layers are available to be programmed and arranged quickly and easily.

Aeon easy-to-use dynamic effects as well as 4K playback turn the Software Player into a powerful tool for creative projection and design.

The Software Player can be set up as a standalone playback device, network playback client or used in console mode for direct DMX Control.

Synchronized Playback

Network based adaptive frame synchronization allows multiple systems to run in sync. An optional SMPTE Link Interface can be used to sync to external sources.

Keystone Correction

The Software Player comes with the patented keystone algorithm that enables you to correct for off-angle distortions accurately on-the-fly.

Softedge Blending & Warping

Either flat or shaped projections can be set up with multiple Software Players. Each output can be blended and warped independently to match any number of geometrical shapes.

No matter what your particular project specifications might be, the Pandoras Box Software Player will perfectly fit your individual requirements.

Softedge Blending Example





4K Playback Support

As high-resolution formats have become the standard for large scale projection, all Software Players support up to 4K video playback and output configuration.

Video Formats

The Windows-based system deals with most DirectShow video codecs, including Quicktime. For optimum performance a high definition MPEG Video Engine is included with every Player.

Image sequence playback support is also available for high quality media playback.



SIEMENS MEDICAL - fischerandfriends

Real-Time Effects

Pandoras Box Player systems feature a large number of visual effects including various keying filters accessible to every layer and output, bringing video composition to a new level of creative possibilities.

The dynamic Aeon effects engine allows assigning multiple FX per layer. Aeon chains are created via drag and drop and controlled individually via any combination of timeline, TCP/UDP, Art-Net / DMX Matrix Output. The built-in DMX Matrix rendering allows the creation of customized applications, where LED or lighting fixtures are required to be used as pixels for giant video surfaces.

Direct Control

All Christie Pandoras Box products give you the choice of a large number of available protocols to control the system. You can use a DMX console or unlock the full features of Pandoras Box Player with the built-in timeline or Manager to get full access to all parameters. Select from industry standard protocols like TCP/IP, SMPTE, MSC, Art-Net, SACN, MA-NET, DMX-512 and many more to achieve your goals.



VERTIGO - Zurich

Christie Pandoras Box Player

- 4x Video Layer
- Unlimited Graphic Layers
- 4x Dynamic FX per Layer and Output
- 4x Audio Tracks
- 1x Sequence
- Patented real-time Keystone

Multiple License Support and Multi License Option

Users can also use the Multi License Option, where the output, sequence, video layer and audio track count multiplies by the number of Multi-Licenses. Up to 16 licenses can be applied to a single dongle. For increased flexibility, individual dongles can be combined, for example, two dongles can be used in a single PC system to double-up the output and layer count in DUAL MODE.

Optional Accessories

- DMX Link In USB interface
- DMX Link Out USB interface
- SMPTE Link I/O USB Timecode interface

Real-Time Show Control

Christie Pandoras Box Manager

Direct. Intuitive. Fast.

The Christie Pandoras Box Manager re-defines real-time editing and playback control. This software allows synchronization and remote control of all Pandoras Box media playback products via network.

The built-in sequences with its cue and key-frame based timeline interface enables you to control Pandoras Box Servers, Players as well as interfacing with all kinds of external controllers via TCP/IP, Serial RS-232/422, SMPTE, DMX, Art-Net, analog and digital industrial sensors.

Pandoras Box Manager acts as both a remote file manager and a master, synchronizing any connected client system with subframe accuracy for demanding applications.

Similar to standard compositing and non-linear editing software solutions, the project orientated user interface is quick and easy to learn.

All Pandoras Box systems share a unique user interface that allows a fast configuration and programming workflow. The interface is context-sensitive and optimized for live applications.

The system is open for multiple input protocols and offers an easy and direct access to all controls. Individual view layouts allow you to arrange the interface according to your needs by creating new tabs and views that can be stored and recalled on the fly.



GENOME - THE SECRET OF LIFE - System Design by Michel Helson

Venue Sites

With Venue Sites, users can navigate through scenes and previsualize the final result before any hardware is installed. This results in efficient and productive collaboration while reducing significant costs and time by enabling the pre-programming of complete shows before the physical setup begins.

Audio/Video Export & Recording

The video export offers users to greatly improve their workflow and export entire scenes into high-resolution video contents while having the flexibility of a real-time editing system. Combined with Venue Sites this feature unleashes the power for design and delivering your idea to the customer.

Live video inputs can be recorded and captured from any source up to 2K/HD for further use within Christie Pandoras Box.



Key Features

Multi-User Control

Using separate Pandoras Box Managers, multiple users can gain access to all Servers and Players simultaneously. Timeline programmings can be done at the same time as warping and content encoding. Workflows can be optimized as changes happen simultaneously.

Tracking Backup

When running a setup with multiple Managers, changes to the programming can be synchronized across all interfaces. Other Managers can then fluently take over the system within a backup situation.

Multi-View

Previewing multiple outputs next to each other in Multi-View offers the possibility to keep track of important displays during a show at a glance. Displaying the fully editable preview in fullscreen helps while warping and for a better overview. Combining the Tracking Backup functionality with Multi-View lets the operator create a remote, fullscreen preview display in order to offload the rendering task from the local Manager.

Pixel-Oriented Workflow

Accurate control over exact positions and sizes of content is crucial to deliver the best quality possible. Pixels can be directly entered not only for layer positions but also for vertices or FFDs while warping. A general focus is set onto the common 2D layout tasks while the powerful 3D environement is only a single click away. Combine the best of both worlds to customize the interface to your needs.

Christie Pandoras Box Manager

- Multi-User control
- 8 independent timelines
- 16 Multi-Channel ASIO Audio Tracks
- Venue Sites
- Audio and Video Recording / Export
- MPEG Encoder Extension

Optional Feature

• Unlimited timelines and unlimited Multi-Channel ASIO Audio Tracks.

Optional Accessories

- Fader Board and Jog Shuttle Controller
- DMX Link In USB interface
- DMX Link Out USB interface
- SMPTE Link I/O USB Timecode interface

Language Settings

Pandoras Box is available in 9 different languages:

- English
 Simple Chinese
- German Japanese
- Spanish Korean
- French Russian
- Italian



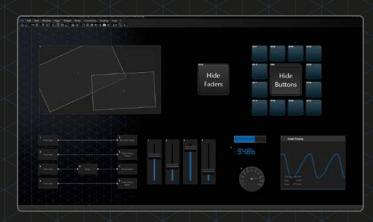
Interactive Application Builder

Christie Pandoras Box Widget Designer

Innovative. Versatile. Reliable.

The Christie Pandoras Box Widget Designer is an advanced control surface creation framework, that lets you create dedicated user interfaces and interaction logic by simply connecting visual control components.

A rich feature set for visual node based programming is available to create customized show-control scenarios. Adding simple scripting makes programming more efficient and powerful.



Customized Widget Designer Interface

The great number of features are all based around the idea, that even non-programming specialists should be given the tools to create truly immersive interactive experiences for their customers.

With the embedded node programming environment users can route and set up almost any possible control scenario. Easily interact with sensors and data sources to route input data to any other output protocol such as Art-Net, Midi/MSC, TCP/UDP, DMX or RS-232/-422 devices. Create custom interfaces for clients to interact with the system, or create individual sets of faders and cue controls for your specific show control demands.

Easily create large scale multi-touch applications for several users who are then able to interact with the content. Scaling, rotating and moving video content can become an interactive experience.

HTML User Interface

The Widget Designer interface is based on HTML-5 and features the possibility to style and manipulate complete pages or single widgets due to internally used CSS3 styles. Those can be imported and applied to the local user interface. Web designers can easily style customized control panels for a variety of different users and applications.

Web Server

The integrated web server, which also drives the native Widget Designer interface, can publish all created pages to external browsers on any kind of device. Remotely control shows with your customized self-designed interface from a tablet, smart phone or computer.

Unlimited Web-Clients Option

The web server can host multiple sessions of Widget Designer. This means that multiple pages can be controlled independently of one another from an unlimited amount of clients. This is perfect for installations where several remote controls are needed with a centralized control station.



Composite Nodes

A compilation of numerous nodes can be integrated in a re-usable custom node for further use. This drastically reduces the amount of required nodes, makes changes to the system much more efficiently and enhances the overview when it comes to extensive node systems.



Web Server Application Example

Multiple Windows

Approach different tasks with different windows. With the option of multiple windows, one can split the technical backend for triggering the show from another window which is remotely driven by a CEO or visitor. View the users interaction in a separate window while working in a different one. Additional screens can run divergent resolutions to match the specific project needs.

Scripting Language

A versatile but simple and easy to learn scripting language opens up another level of possibilities and effectiveness. Widgets and Pandoras Box devices can be scripted along with external protocols and sources. The improved scripting methods guide the user when it comes to errors, adds local variables and unifies the overall scripting convention to finally reduce production times.

Pandoras Box Integration

The Widget Designer can be directly used as a sequence device as part of the Pandoras Box GUI. One also has the option of reading out a great variety of Pandoras Box values.

External Devices / Protocols

Make use of an extensive amount of supported protocols and external devices. Camera tracking and motion detections can be used to trigger network-based protocols or can be translated to interact with file formats. Read and edit spreadsheets to update projected content or use data bases to schedule shows. The Widget Designer is capable of uniting combinations only imagined before.



I / O Solutions

Christie Pandoras Box NET Link

Connect. Switch. Calibrate.

The Christie Pandoras Box NET Link product family makes it possible to convert a great number of external inputs into network data. Each NET Link unit can be equipped with up to two modules that can be freely configured.

Another very important role played by NET Link products is enabling the connection between switching relays, sensor input and output and Widget Designer control software.

Depending on specific project needs, the NET Link products are designed to be equipped and configured in many different ways. Reading industrial sensor data for screen tracking scenarios is only one possible example.

One of the most innovative product options is the use of the Fiber Link model as an ingenious, marker-based calibration device for the Pandoras Box Warper tool.

Re-calibrating projector positions has never been more reliable and user friendly.

Fixed installations involving projections can now be set up in a way that allows for the creation of an exceptionally easy on-the-fly calibration environment, that can be operated even by non-specialists.

Whether inside a theatre, a modern museum or as part of a modern cruise ship's immersive entertainment world, installations featuring a Fiber Link unit can be made both cost effective and easy to maintain on a 24/7 basis.



NET Link Modules

- 8x Calibration Fiber Input
- 8x 0-5V analog, external Power
- 8x 0-5V analog , internal Power for Sensors
- 8x 0-10V analog, external Power
- 8x Relay Digital Input 12V
- 8x Relay Digital Input 24V
- 8x Relay Output 48V 4A
- 4x Digital Encoder Input



Module Examples

Touch-Free Control

AirScan

IR-Laser Multi-Touch

Motion controlled user interfaces add a new dimension to interactive multimedia display and presentation solutions. The Pandoras Box AirScan combined with the Widget Designer allows for touch-free interactivity. They offer the opportunity to interact with digital content in ways not possible with traditional displays. Easily bring your projects to life on any surface, whether it is an LED wall, projection screen or even a concrete wall.

The AirScan control interfaces allow for custom design and integration of interactive displays that let users navigate menu based multimedia presentations in any environment.

Trigger actions or move and interact with virtual objects in presentations the same way as in museums for educational purposes or theme park experiences.

As part of a Pandoras Box Playback solution live presentations can be controlled from any distance and projected onto any sized screen with no mouse or pointing device required.

Large Scale Scanning Range

Touch-free solutions can be set up and integrated for various applications. AirScan can be used at distances of up to 10 m / 30ft. It features up to 24 multi-touch points.

Advanced Motion Stabilizing

The built-in motion stabilizer allows these advanced input devices to be used on large scale displays by offering high speed processing and damping of the sensor motion data.

Dynamic Gesture Menu Programming

Using Widget Designer one can quickly set up unlimited menu page configurations and gesture-controlled actions allowing the interactive display to be easily customized.

AirScan setup as multi-touch interface







Real-Time Tracking Devices

Christie Pandoras Box ID Tag

Unique. Robust. Cost effective.

The revolutionary ID Tags make real-time tracking scenarios not only easier to set up, but also reliable, versatile and more cost-effective.

The combination of cutting edge real-time rendering and advanced tracking setups allows for the realisation of stage and show projects that were previously thought impossible. Video, lighting, camera and audio-control scenarios are the main applications that can all be enriched by employing real-time tracking technologies.

Each of the tags can be addressed with a unique ID, which opens up the possibility of up to 256 different unique IDs being tracked in real-time within a single setup.

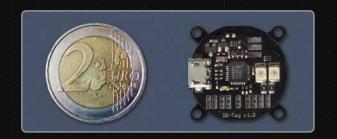
Tracking people or objects this way is achieved using a purely optical transmission system, thus avoiding the many pitfalls of radio control based setups.

- The ID Tag is available in two versions:
- A coin sized ID Tag can be easily attached to costumes, set pieces or any other part of a tracking setup.

• A QUAD ID Tag as beltpack with four individual LEDs which can be easily handed out to speakers or attached to scenic props and elements.

Using Widget Designer Software to create the actual control setup, users can choose between different modes, depending on each individual setting and lighting situation.

Whether it is an ice hockey team making a memorable entrance with fire particles following their skates, or dancers being surrounded by colourful coronas of light, Pandoras Box products combine creative freedom with tested reliability.



Technical Features

- Maximum number of unique IDs: 256 Different modes with less IDs are available for faster detection time: 256,128,64,32,16,8,4
- Minimum number of tracking cameras needed for tracking setup: One camera for 2D setup, three cameras for 3D setup.
- Camera types suitable for ID tracking setups: USB cameras with 100 fps; network-powered-Ethernet cameras with up to 250fps

Please consult with Tech Support before specifying camera type.





Working in Multiple Dimensions

3D Mapping & Warping

Software Features

Screen Warping

Pandoras Box is one of the first professional systems that offers integrated realtime 3D rendering for live editing and playback. As all media files are processed in a true 3D environment, it's easy to apply textures onto complex curved and shaped screens. 3D keystoning is achieved by rendering each scene onto a 3D surface. Custom 3D objects such as .3ds and .fbx can be imported into the software.

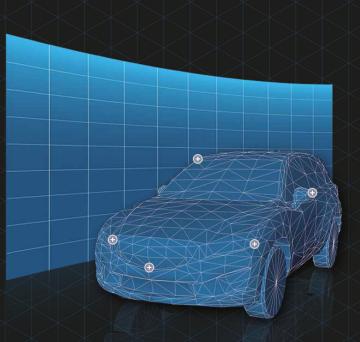
With this technology it is possible to project onto regular 3D surfaces like a dome or sphere and create amazing 360° projections.

Projection Mapping

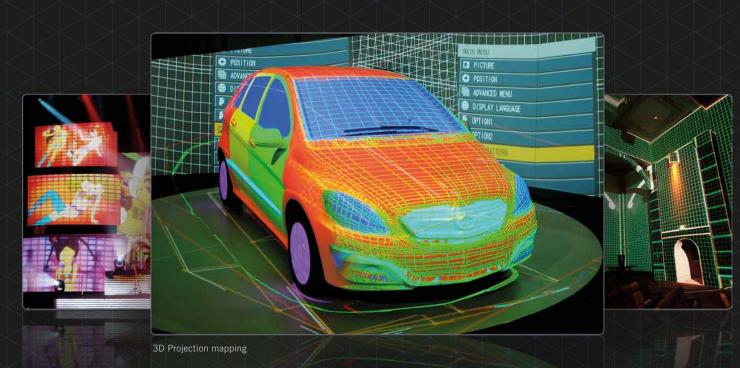
With its real-time 3D rendering engine, Pandoras Box offers the most advanced technology in image warping and blending. Based on 3D geometries, detailed and advanced warping applications can be achieved with single- or multi-channel blended projections.

3D Calibration Feature

This feature is very user friendly when using 3D warping applications. All one needs to do is define a minimum of four points on a 3D projection surface, after which one can easily position the corresponding 2D markers. Based on the physical lens settings, the software will then automatically generate the 3D projector position and orientation. The high accuracy of this feature will save valuable time in a great number of projection mapping setups.



The Pandoras Box 3D projection mapping tools feature independent content composition and warping calibration. Using this great arsenal of groundbreaking creative tools, the production workflow can be organized efficiently and allows for fast setup times.



Pandoras Box Users

Testimonials



"We have been using Pandoras Box since the very beginning. When it was first introduced 10 years ago, Pandoras Box was the benchmark of possibilities and flexibility. And today, it still is! From large-scale projection mapping, uncompressed image sequences in resolutions far greater than 4K, to complex permanent installation in museums or exhibitions, like the Expo 2017. Pandoras Box is not only a technical solution for us – it's a tool that breaks the boundaries of technical and creative limitations. With Pandoras Box, we are able to bring every idea and concept to life. When you combine inspiration with a powerful tool like this, you're able to not only inspire your clients, and customers, but even yourself!

Benjamin Brostian AV ACTIVE / CEO Nik Burmester Burmester Event- & Medientechnik / CEO Germany

"Pandoras Box has changed my professional life. As a lighting designer, I had dabbled in video but had never treated it seriously, nor was I taken seriously. Once I was introduced to the Pandoras Box range and understood the capabilities of the systems and software, it changed my approach to production design. No longer did video need to be a separate element. I could then envision a stage design with all the luminous elements and provide a serious video solution. The ability to lock to, or generate time code makes my video content all the more powerful on broadcast work. The tools made available from Pandoras Box have given this old dog many new tricks, and they seem to keep coming."

Paul Collison

eleven DESIGN / Managing Director Australia

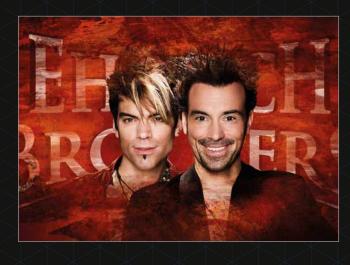




"We have been using Pandoras Box since 2012 and have discovered that this product offers so much more than one could possibly think. Pandoras Box became not only our default tool for projection mapping, 3D tracking and uncompressed playback, it has also been used to simulate and automate complex kinetic scenery movements, such as in our production 'Overture' by David Dawson. Widget Designer has even found its way to our foyers, giving employees control over light, video and sound installations. In the opera world, it's wellknown story nearly anything is possible at Dutch National Opera & Ballet – much to the power and performance of Pandoras Box!"

Pieter Huijgen

Dutch National Opera & Ballet / Head of light/video/stage Netherlands



"When doing a magic show, timing and accuracy is key. Essential to this is our technical setup, wich we often rely upon to make our tricks and the entire show work. Whether its for video and audio playback, SMPTE control for lighting, DMX triggers for fog or flames, projector control or just the rise of the curtain at the just the right time – we trust Pandoras Box and Widget Designer. The versatile timeline programming combined with the flexibility of the Widget interface allows us and our crew to be spot-on, everytime. We first discovered the reliability and easy adaptability of Pandoras Box back in 2008 – and it's been an indespendsible tool since. It really gives us the freedom to think outside the box in our show design."

> Ehrlich Brothers Germany

"To me and my team this perfect technical instrument allows us to realize ideas in the most effective way. With great flexibility and no technical boundaries, in the best quality possible and with extreme reliability. All this helps us to turn our big picture ideas into a beautiful reality. In the end, it's still the people, humans and their passion and ideas for creating, innovating and touching others deeply. If the tools are cool, they can even inspire you to create something even beyond your own and your clients' expectations."

Matt Finke

loop light / CEO Germany



"Since 2005, we have been proud to be part of the innovative and visionary Pandoras Box team as early adopters of Pandoras Box, the world's most powerful media server. We have literally built our business as Video Projection Experts on the Pandoras Box product family. We value the company's unwavering commitment to dialogue and partnership with their customers, and to continual improvement of the products. We look forward to many more productive and profitable years with Pandoras Box, creating exciting projects for audiences throughout the world."

> Danny Whetstone DWP Live / CEO USA

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