

PANDORAS BOX

coolux[®]
MEDIA SYSTEMS

Real-Time Media Compositing

Pandoras Box Server



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Creative. Scalable. Reliable.

The award winning Pandoras Box Server system offers the best high performance link between projection and digital image compositing:

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 render-engine offers real-time compositing in 3D and allows for projection onto any shape and any surface.

Arrange videos and images freely, change colour, form and position. Pandoras Box synchronizes all video & audio sources. On-site 3D rendering, composition and editing make Pandoras Box the perfect choice for any live event or multi-media show.



Screenshot User Interface



Mercedes B-Class Launch - China

Keystone Correction

The Pandoras Box Servers come with a patented keystone algorithm that enables you to correct for off-angle distortions accurately on the fly. This feature is especially useful for short setup time or when programming moving projectors.

Advanced Warping

The built-in warping editor lets you create any custom shape with scalable free-form-deformers (FFD) that enable you to wrap almost any screen shape.

Softedge Blending

The Softedge Blending feature works hand in hand with the built-in warping technology. This way either flat or shaped projections can be set up with multiple projectors. Each output can be offset independently and features individual control of the blend settings on each side of the output to allow both horizontal and vertical blend setups.



BLUE PLANET SHANGHAI EXPO - courtesy of TRIAD

Pandoras Box Server Systems

DUAL Server

- 2x DVI/VGA Output
- 4x Full HD Playback
- Optional Input Boards



This server type is a powerful multi-purpose system that can be used for projects in a large variety of markets including (but not limited to) the event-, theater-, broadcast-, touring- and/or installation sector.

QUAD Server

- 4x DVI Output
- EDID Management
- 8x Full HD Playback
- Optional Input Boards



NEW

The NEW QUAD Server systems are perfect for projects that require multiple outputs.

The QUAD's great versatility in combination with the additional inputs available makes it a great choice for large scale panoramic projections, interactive digital signage projects and fixed installations.

BROADCAST Server

- 2x 3G/HD SDI Output
- 2x HD-SDI Input
- Genlock/Framelock I/O
- Optional Input Boards



NEW

The NEW BROADCAST Server offers broadcast professionals a dual 3G/HD-SDI output solution. The BROADCAST Server features 2x low latency HD-SDI inputs.

Along with its ability to offer subscanline-level synchronization to external sync sources, the BROADCAST Server can be used for multi-system and multi-display applications.

All Pandoras Box Servers are available in three versions, which can be equipped with different types of input boards, depending on your individual requirements.

A complete content library with over 2000 files is included with every Pandoras Box Server.

Pandoras Box SERVER PRO

- Unlimited Video Layers
- Unlimited Graphic Layers
- FX & Particle Systems
- 2 TB Redundant Storage

Pandoras Box SERVER STD

- 16 Video Layers
- Unlimited Graphic Layers
- FX & Particle Systems
- 1 TB Redundant Storage

Pandoras Box SERVER LT

- 8 Video Layers
- Unlimited Graphic Layers
- FX & Particle Systems
- 500 GB Redundant Storage

Optional Accessories

- DMX Link USB interface
- SMPTE Link, USB Timecode input/output interface

Specifications are subject to change.

Video Input Options



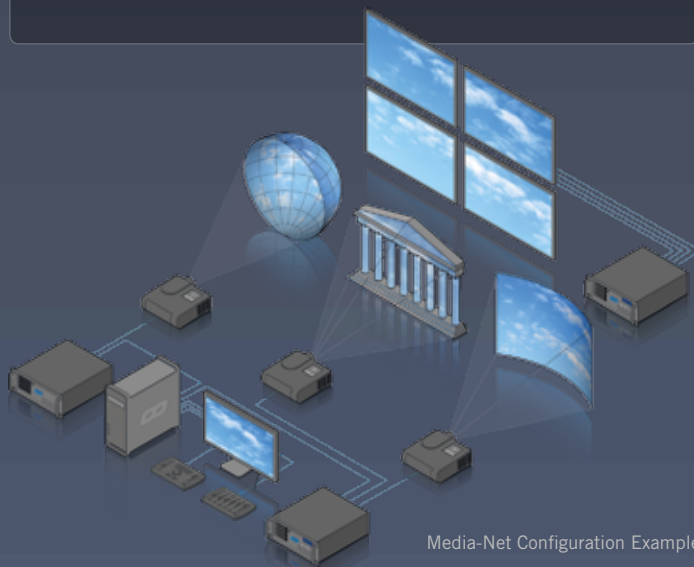
Dual HD SDI

The HD SDI board supports all common SD and HD SDI formats such as 1080i (50/60), 1080p (25/30), 720p, Ntsc and Pal standards



Dual DVI

Dual Full HD 1920 x 1080 DVI I/A input. The card can process either 1x DUAL LINK DVI input or 2 x SINGLE LINK DVI inputs



Media-Net Configuration Example

Pandoras Box Server

Key Features

Output Configuration

All Pandoras Box Servers feature full HD playback and dual 2D & 3D stereo output configurations. All video layers can be freely positioned onto any of the two outputs. Both DVI outputs can be set to a resolution up to 2048x1080 at 60/50hz.

Advanced Output Synchronization

The new Pandoras Box Server Systems are the perfect choice when two or more synchronized outputs are required. All video layers are internally synced via the coolux proprietary Media-Net. Virtual Devices allow management and control of any amount of servers as a single entity.

Beyond HD

As the HD format has become the standard for large scale projection, all Pandoras Box Server Systems support high-definition video playback, with a maximum playback resolution of up to 4K. The built-in Media Encoder allows you to convert regular footage as well as custom resolutions to the right format depending on your project requirements.



DMX Matrix - Post Tower Bonn

Live Input SD/HD-SDI & DVI Processing

One of the key features of Pandoras Box Server Systems is the broadcast quality of the low-latency video and PC input options. Featuring both SD and HD-SDI inputs with as low as 2 frames of processing time, Pandoras Box Server Systems come with a set of real-time de-interlacers to process interlaced camera feeds at full framerate.



Direct TV - FireFly LA

Full Control

Like all Pandoras Box products you may choose from one of the many protocols to control the system. You may use the powerful features of the built-in timeline or connect a DMX console to get full access to all parameters. TCP/IP, SMPTE, RS232/422, Art-Net, DMX512, MA-Net, SACN, MSC are currently supported.

FluidFrame™ Technology

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

3D Multi-Layer System

With a true 3D compositing environment, unlimited video- and graphic layers (depending on server version), Pandoras Box offers a great amount of flexibility for creative real-time media production.

NEW Aeon™ FX Engine & FireFly™ 3D Particle System

The dynamic Version 5 shader effects engine enables users to create and combine an almost unlimited number of 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.

DMX Matrix Output

The 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.

