

7thSense are always interested in extending our product line, and as such are open to suggestions for new features or custom requirements.

A prime example of this philosophy is the Chicago Museum of Science and Industry, who required a giant beating heart projected onto a custom 3D formed mesh screen. To meet the requirements, we had to add 3D screen mesh import, a variable playback rate in sync with a visitor's heartbeat, seamless fading between various different heart movies (e.g. bloodflow, electrical activity) and an externally controllable crossfade between internal & external projected views.

7thSense developed all of these features in time for the August 2009 launch of the exhibit, integrating the 4 Delta servers with our customer's control system.

New Features (Heart project)

Delta's additional features for the Heart installation:

- Wrap high resolution moving imagery onto customer-supplied 3D mesh
- Externally controllable variable playback rate
- Seamless, on-demand crossfade between multiple movies.
- Variable mask to provide externally controllable crossfade between front and rear projected views of the Heart.
- Tight integration with feedback of playback status to customer's control system
- Additional point distortion for alignment of 5 projectors onto 3D Heart shaped screen surface

Delta Features

Standard Delta includes:

- Uncompressed Movie Playback
- HD, 4k and Beyond media resolution
- Mixed Media (Movies, Images, Audio, Effects)
- Realtime Warp & Blend
- Multiple layers with effects
- Overlap and Underlap creation
- Multiple graphics outputs per server
- Multi-rack synchronisation
- Full External Control / API

Options include:

Active and Passive stereo 3D output
- Polarised, Shutter Glasses, ColorCode, Anaglyph

Live Video inputs
- sVideo, VGA, DVI, HDMI, HDSDI

High Bit Depth
- Dual Input for JVC, DPI, Christie, Barco

Full Dome Delta Mode
- 3D media and virtual projector placement

Encrypted Movies
- Time & venue limited movie playback