

Digital Cinema is a long sought after goal of the Audio Visual community, replacing complicated film based technology with digital projectors and PC based media serving for 2D mono and 3D stereo films, increasing the image quality and decreasing costs.

Delta has now been successfully running within large format domes since 2006, and as part of our new Intensity3D concept, it is possible to offer encrypted movie playback from Delta matched to a stacked-projector display system for the required high brightness and fidelity, integrated as a single coherent digital movie source.

Digital cinema projectors are clearly high end, and often have special requirements such as working in an XYZ colour space or a need for external distortion correction for curved screens. Delta has been optimised specifically for this role.

Digital Cinema Features

Delta incorporates many benefits for digital cinema:

- Movie Encryption (venue or time based limits)
- Flat, Curved screen or Full Dome modes
- Passive & Active Stereo 3D modes
- High Bit Depth video (10 or 12 bit dual input modes, side by side or pixel interleaved).
- RGB or XYZ native output colour space
- Patent Applied For technique for movie protection also increases stacked projector image quality
- Automatic Ingest of standard MXF show files.
- Intensity3D advanced processing

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