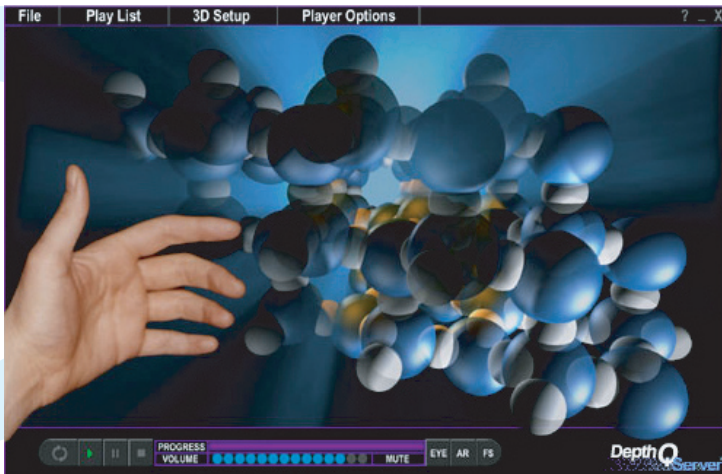


DepthQ Server[®]

DepthQ Server[®] for Stereoscopic Media

is a feature-packed software solution for the playback of stereo 3D movies from a standard off-the-shelf PC. Easy to use and designed from the ground up as a professional product, DepthQ Server[®] provides flawless playback for the most perfect, comfortable-to-view stereo 3D experience possible.

DepthQ Server[®] allows cost-effective delivery of high-resolution media to 3D theaters, museum exhibits, portable theaters, motion simulators, corporate events, and trade shows.



Screen capture of DepthQ Server[®] software in windowed mode

Technical Description

DepthQ Server[®] is available in two configurations: **Standard Definition** (up to 800x600 per eye) or **High Definition** (up to 1920x1080 per eye and beyond). Each configuration is capable of displaying flicker-free stereoscopic 3D video, the equivalent of two simultaneous streams of 2D digital video. For example, an HD 3D film made up of two separate streams of 1920x1080 would be stored in a concatenated stereoscopic format (e.g. above/below) at a resolution of **1920x2160**.

When played back, DepthQ Server[®] displays your film in the highest quality stereoscopic format - progressive "page flip" (frame sequential) - at refresh rates up to 120 Hz. What makes this impressive level of data transfer possible on a common desktop computer is a combination of exceptionally well-crafted code and Lightspeed Design's proprietary image compression/decompression algorithm, the DQ3D codec.

Yet another truly unique feature of DepthQ Server[®] is its perfect synchronization. Since both left and right data is stored in a single video frame it is *actually impossible* for left and right eye information to display out of sync.

DepthQ Server[®] supports a *single* graphics output pipeline for display with single-lens projectors and CRTs (using active shutter glasses) or a *dual* graphics output pipeline for display with two-projector passive displays (using polarizing glasses).

As powerful as it already is, the image display quality of DepthQ Server[®] will continue to advance with each improvement in off-the-shelf computer technology. We are currently testing even higher resolutions and frame rates, and this power is being harnessed to drive truly amazing high resolution 2D displays as well as advancing the state of the art in stereoscopic 3D display.



DepthQ Server[®] operates under Windows XP[®] or Windows 2000[®] on a standard PC equipped with an OpenGL graphics accelerator card (with support for quad-buffered OpenGL stereo). It can stream left and right eye video information in either a dual pipeline for two-lens projection or in a single pipeline for single-lens projectors such as the Infocus[®]DepthQ[®] stereoscopic.

Lightspeed

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Technical Features

- ◻ Primary display output: progressive OpenGL quad-buffered frame-sequential “page-flip” (Analog RGB, Digital DVI)
- ◻ High Definition (HD): Full resolution per eye up to 1920x1080 and beyond @ up to 30 frames per second, display up to 120Hz. (See general system requirements below)
- ◻ Standard Definition (SD): Full resolution per eye up to 800x600 @ up to 30 frames per second, display at up to 120Hz.
- ◻ Wide variety of data and compression formats: un-compressed SD NTSC/PAL, MPEG2, DIVX, DV, MJPEG, DQ3D (HD Only), Etc.
- ◻ Full-featured player interface, includes advanced playback controls and playlist support
- ◻ Single pipeline output for active displays such as CRTs and specialized single DLP stereoscopic data projectors
- ◻ Dual pipeline output for passive displays based on stacked video projectors, LCD or DLP
- ◻ Full-screen and windowed stereoscopic display mode support
- ◻ Real-time zero parallax plane adjustments (vertical and horizontal).
Two methods are included, a traditional zero parallax-based adjustment and a guided infinity-based parallax adjustment.
- ◻ Support for advanced multi-channel sound: Dolby Digital 5.1 channel
Sampling frequency: 44,100-48,000 kHz. Digital AES/EBU Analog XLR
- ◻ Stereoscopic media input formats supported: above/below, above/below for sync-doubling (with adjustable separation), relaxed or cross-eye (Side by Side), interlaced, and Synthagram® autostereoscopic*
- ◻ Support for still stereoscopic image visualization (JPG, BMP)
- ◻ Additional output formats: Support for a wide range of hardware independent stereoscopic output formats: interlaced, above/below for sync doubling (with adjustable separation), relaxed or cross-eye (Side by Side), and a variety of anaglyph.
- ◻ On-the-fly conversion of interlaced stereoscopic DVD (TV formatted) or MPEG-2 data to any supported output display format at playback. (Direct playback from DVD not supported at this time)
- ◻ Support for a wide variety of display formats: CRT monitors with LCD shutter glasses, line-blanking hardware, synchronization doubling hardware, DLP and LCD projectors, plus Sharp® and Synthagram® auto-stereoscopic monitors*

General System Requirements

Standard Definition (SD)	High Definition (HD)
Single processor PC ≥2.8 MHz processor speed	Up to dual processor PC <i>(call for suggested processor speed)</i>
Data Storage: single IDE/SATA drive Typical storage capacity: < 1 Terabyte	Data Storage: IDE/SATA or SCSI disk array. Typical storage capacity: > 1 Terabyte
Windows XP® or Windows 2000®	Windows XP® or Windows 2000®
OpenGL graphics card with support for quad-buffered OpenGL stereo: nVidia Quadro FX1100 (PNY) or better for both single and dual projections.	OpenGL graphics card with support for quad-buffered OpenGL stereo: nVidia Quadro FX3000 (PNY) or better for both single and dual projections.
One free USB port for HW key installation	One free USB port for HW key installation

Pricing

DepthQ Server® SD (Up to 800x600 per eye) US \$399.00[‡]

DepthQ Server® HD (Up to 1920x1080 per eye +) Call for pricing.

* Synthagram® support not included with basic package

◊ System requirements vary depending on output resolution. ‡ When purchased with an InFocus® DepthQ® projector.