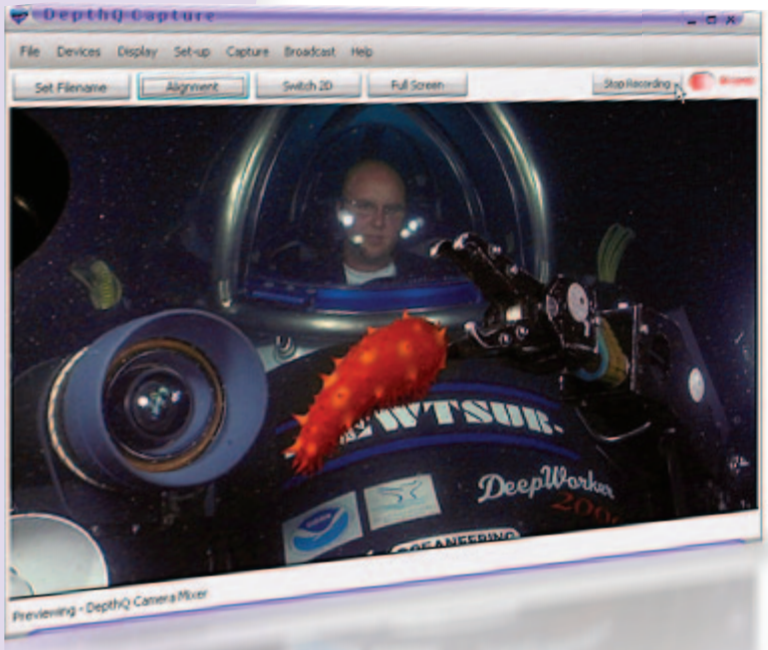
DepthQ® STEREOSCOPIC

Precision HD 3D From LightspeeD DESIGN

# DepthQ®Capture™ for Stereoscopic Media

is a powerful software solution for the ingest, recording and monitoring of stereo 3D video from two camera inputs at up to dual HD resolution.




*Features include low latency, real-time monitoring, a camera alignment aid and visual overlays to assist in optimizing your 3D effects for various target playback screens.*

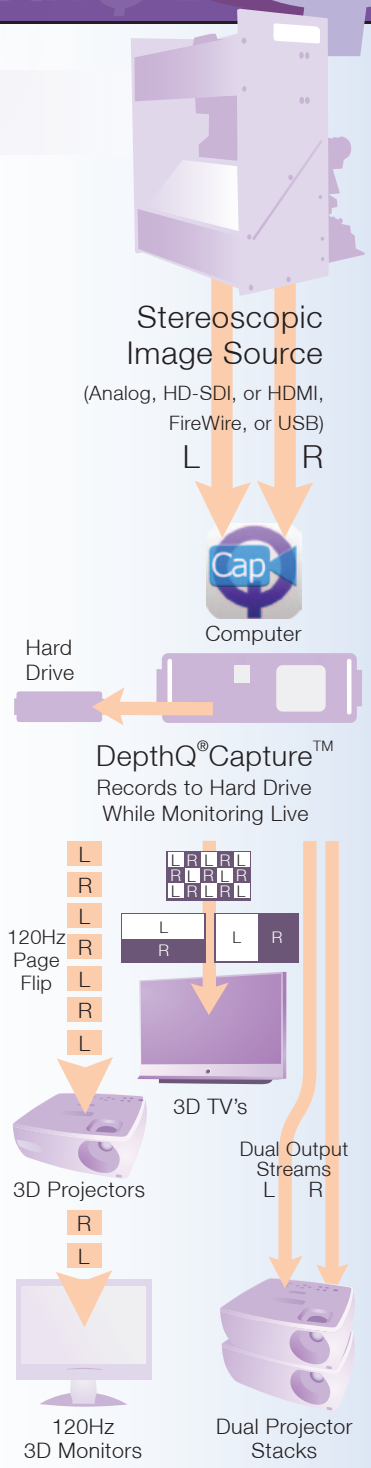
DepthQ®Capture™ ingests your two independent video sources (or single camera stereoscopic source), whether Analog, HD-SDI, HDMI, FireWire or USB. It then concatenates them together as an above/below image to preserve sync and processes the result - applying any compression required. Lastly, it serves the final stereo data as a single data stream to any 3D (or 2D) monitoring device at the required resolution, frame rate, and encoding standard for that display.

For instance, if the 3D monitoring display is the DepthQ® HDs3D-1 video projector, DepthQ®Capture™ transforms the input to the required 1280x720 resolution in a frame-sequential (L-R-L-R) HDMI format at 120 frames per second.

Simultaneously, with the click of a button, DepthQ®Capture™ can record this stream to hard disk for later playback via DepthQ®Player™, or for editing and post-production in standard video processing software. The entire process - from capture through processing and delivery is accomplished with extremely low latency for critical realtime monitoring.

DepthQ®Capture™ code runs under both Windows® XP* and Windows® 7, and supports HD-SDI and the DQ3D codec (as well as any other codec with adequate performance to capture dual stream full HD data).

*At this time Lightspeed recommends Windows® XP for greatest stability.




*Some of DepthQ®Capture™'s output flavors.*

DepthQ® STEREOSCOPIC

***For more information please call +1.206.784.1385***

www.depthq.com

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# DepthQ®Capture™

FOR STEREOSCOPIC MEDIA

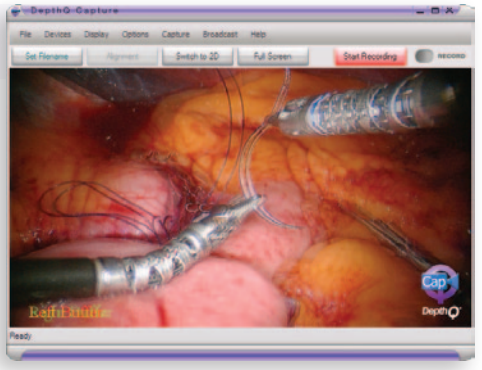
## Technical Features

- Supports ingest as well as monitoring & recording up to High Definition (HD) 1080 30PsF (1920x1080) per eye, display refresh up to 120Hz.
- Accepts dual channel input via Analog, HD-SDI, HDMI, FireWire, or USB*.
- Supports a wide variety of single-channel stereoscopic media input formats: above/below, above/below for sync-doubling (with adjustable separation), relaxed or cross-eye (Side by Side), interlaced, Tri-Delta, SIS, etc.
- Primary display output: progressive OpenGL quad-buffered frame-sequential "page-flip" (Analog RGB, Digital DVI).
  Optional display output: nVidia® 3D Vision™ stereoscopic renderer (under DirectX and Windows® 7).
- Wide variety of data and compression formats: DQ3D (included), H.264/MPEG-4 AVC, MPEG-4, MPEG-2, DV, MJPEG, uncompressed, etc.
- Full Screen and Windowed stereoscopic display mode support in Open GL mode (nVidia 3D Vision is full-screen only).
- Single pipeline output for active displays such as single lens DLP® stereoscopic projectors, 3D-ready plasma screens, LCD monitors & rear-projection DLP® monitors as well as CRTs.
- Dual pipeline output for passive displays based on stacked video projectors.
- Support for a wide variety of hardware-dependent display formats: DLP® projectors, 3D TV's, CRT monitors with LC shutter glasses, checkerboard displays, line-blanking hardware, sync-doubling hardware, plus two-view autostereoscopic monitors**.
- Additional 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.
- Includes DepthQ®Player™, which also provides a full-featured player interface, including advanced playback controls and playlists PLUS:
- Support for real-time GPU pixel-shading via Cg code.
- 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.

** Dependent upon which capture card is purchased.* *** Autostereoscopic support not included with basic package.*

## General System Recommendations

**Computer:** Intel Core i7 based CPU (i7-950 or better)
**Motherboard:** Core i7 Motherboard (Asus P6T or similar)
**RAM:** 3GB DDR3 1333 RAM
**Data Storage:** Multi-disk RAID0 storage array (2 disk or more)
**Operating System:** Windows® XP Pro 32 bit
**Graphics Card:** One nVidia® Quadro® graphics card with support for quad-buffered OpenGL stereo - FX3700 or better (DIN-3 stereo sync required)
**Capture Cards:**
**SD Capture Card:** 2x Osprey240e Capture Card *Optimized for PCI Express®*
**HD SDI Capture Card:** 1x Blackmagic Design Decklink Duo Capture Card
*Full resolution SD/HD SDI editing card*
**Security:** One free USB port for HW key installation



*DepthQ®Capture™ in use with Intuitive Surgical's da Vinci® S HD™ Robotic Surgical System*

LightspeeD DESIGN

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