

**DepthQ**<sup>®</sup>

S T E R E O S C O P I C

Passive Polarization for  
***Advanced 3D Visualization***



Fast.  
Bright.  
Reliable.  
***Passive 3D***

**DepthQ**<sup>®</sup>

S T E R E O S C O P I C

by Lightspeed Design, Inc.

[www.depthq.com](http://www.depthq.com)

For more information please call +1.206.784.1385



# Polarization Modulators for Advanced 3D Visualization

## Details

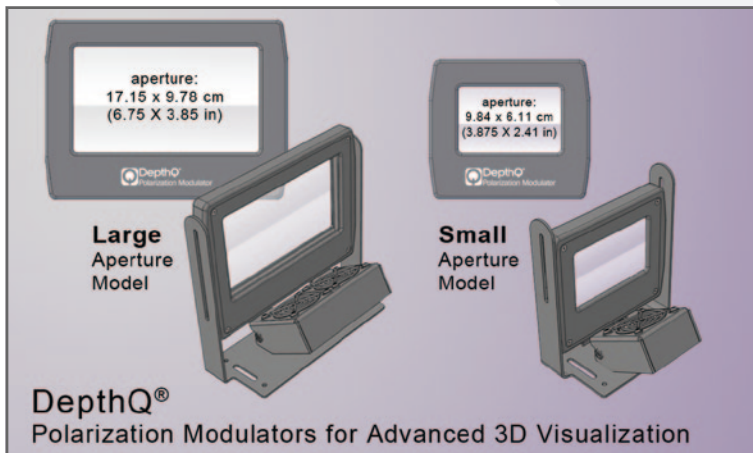
Newly patented technology makes DepthQ® the world's fastest polarization switch for advanced 3D visualization. With a powered, symmetrical **50 microsecond** switching time between the eyes, DepthQ® easily ensures bright, low-crosstalk operation - even at the upcoming 3D HFR (high frame rate) targets of **192 FPS, 240 FPS...and beyond**.

DepthQ® functions by precisely and efficiently switching the polarity of light passing through them in perfect sync with the left and right eye images, whatever your frame rate...up to 400 FPS.

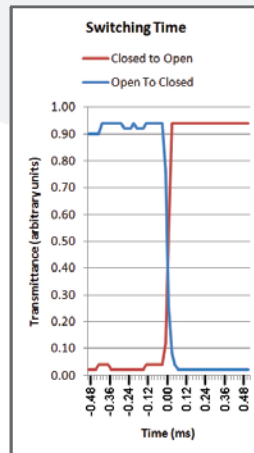
When combined with a silver screen, the DepthQ® Polarization Modulator allows your 3D-ready projector to display stunning stereoscopic 3D content, viewable using inexpensive passive circular polarized glasses. Paired with projectors up to 30K Lumens, DepthQ® provides a spectacular 3D experience for screens up to 17.7m (58ft).

- Bright, low-ghost 3D
- Crisp, sharp image
- Two sizes available, Large and Small
- Heat-tolerant, Large model accepts up to 30K Lumens, Small accepts up to 4K Lumens
- Supports 3D screen sizes from ~2 to 17.7 m (6 to 58 ft)
- No moving parts - low cost/maintenance
- Works with all DLP 3D-ready projectors
- Compatible w/standard circular polarized 3D glasses

DepthQ® is compatible with all DLP 3D-ready projectors. Simply connect via the GPIO port on your projector or the sync output of your computer.



LC-Tec Displays AB U.S. Patent No. 8023052 B1



No time wasted switching eyes\*



Optional two position actuator allows automatable switching between 2D and 3D.

## Specifications

### DepthQ® Polarization Modulators for Advanced 3D Visualization

Large Aperture	17.15 x 9.78 cm (6.75 x 3.85 in)
Small Aperture	9.84 x 6.11 cm (3.875 x 2.41 in)
Contrast/Ghost	>100 : 1 in each eye
Efficiency	~15%
Screen Size	Based on your projector brightness, from ~2 to 17.7 m (6 to 58 ft)
Switching Time	50 µsec (symmetrical)*
Operating Speed	Up to 400 Frames Per Second (FPS)
Heat Protection	Metallic Pre-Polarizer (on Large model)
Operating Temp	+5 to 52 deg C (40 to 125 deg F)
Actuator	(Optional) Two-position relay closure for 2D to 3D switching

\*50 µsec is actually faster than the smallest adjustable dark intervals currently available in professional 3D digital projectors.

The DepthQ® Polarization Modulator is co-developed by **Lightspeed Design, Inc** and **LC-Tec Displays AB**.

The two companies have over 19 years of experience in their respective fields of stereoscopic design and liquid crystal manufacturing and development.

This projection technology is exclusively distributed by:



by **Lightspeed Design, Inc.**  
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