



DepthQ®

3D

## PASSIVE POLARIZATION FOR 3D PROJECTORS



**Fast.**

**Stunning.**

**Future-Proof.**



DepthQ®

by Lightspeed Design, Inc.

For more information please call +1.206.784.1385

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





# Polarization Modulators for Advanced 3D Visualization



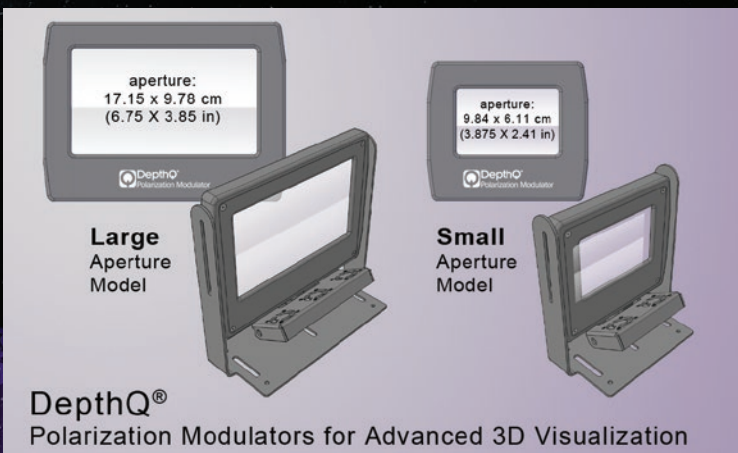
## Details

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.**

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
- ✓ High Frame Rate (HFR) ready
- ✓ Two sizes available, Large and Small
- ✓ Heat-tolerant, Large model accepts up to 34K Lumens, Small accepts up to 4K Lumens
- ✓ Supports 3D screen sizes from ~2 to 18.3 m (6 to 60 ft)
- ✓ Solid-state switch, 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 Number 8023052 B1, issued Sept. 2011



DepthQ® circularly polarizes left and right eye views in sync with your 3D-ready digital projector

## 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% Full System Efficiency
Screen Size	Based on your projector brightness, from ~2 to 18.3 m (6 to 60 ft)
Switching Time	50 µsec (symmetrical)**
Operating Speed	120, 144, 192, 240 Frames Per Second (FPS) - Up to 400 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.

Distributed exclusively by:



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