

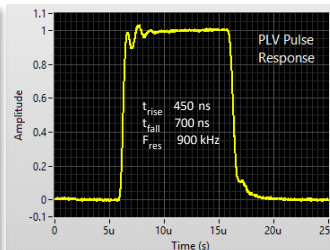
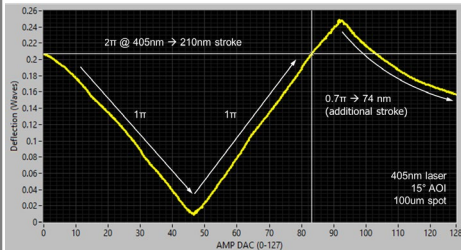
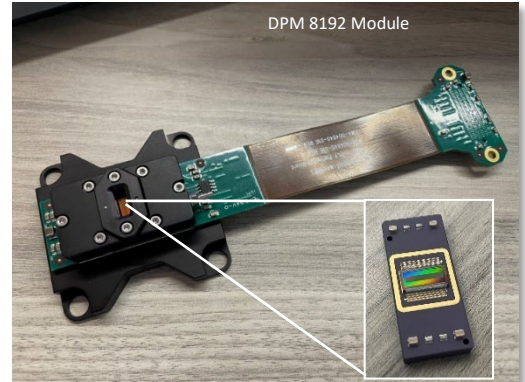
32 x 256 Channel DPM™ Module

**SILICON
LIGHT
MACHINES**

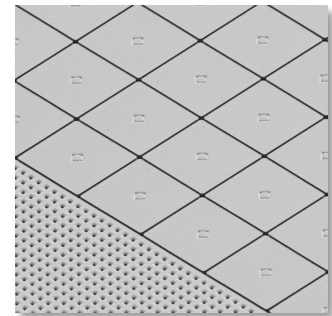
Model Number: D8192

Features

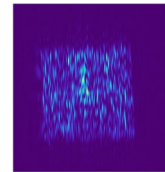
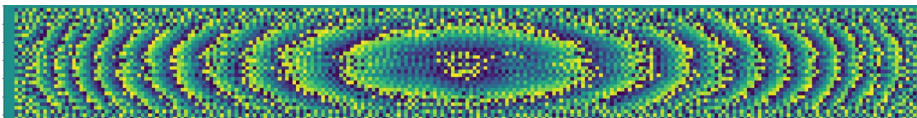
- 2D MEMS phase spatial light modulator.
- Full wave phase modulation for UV to VIS (green)
- NIR coming soon.
- High fill factor, high speed MEMS pixels
- Compatible with the Cosmo controller board to load and run up to 64k frames of 7-bit linearized displacement data at 250 kHz frame rate.
- Streaming controllers available for continuous data applications



IV Curve and Pulse Response



DPM™ element SEM image



Example of top hat beam shaping using DPM™ 8192 (a) Phase pattern, (b) Top hat response at lens focus

DPM™ 8192 Module Specifications

Modulation Frequency	250 kHz
Phase Levels	128 (7-bit) linearized
Number of Pixels	32 x 256 pixels
Pixel Size	32 μm wide x 32 μm tall
Array Size	8.192 mm wide x 1.024 mm tall
Fill Factor	94%
Grating Pitch	16 μm