



**Electro Optical Components, Inc.**

5460 Skylane Boulevard, Santa Rosa, CA 95403

Toll Free: 855-EOC-6300

[www.eoc-inc.com](http://www.eoc-inc.com) | [info@eoc-inc.com](mailto:info@eoc-inc.com)



## Ghost Imaging

A common approach to experimental thermal light source generation is for the laser to hit the hairy glass and convert the coherent laser light into partially incoherent light through scattering from the hairy glass, also known as pseudo-thermal light field. The pseudo-thermal light field obtained by this method is not easy to regulate, and the incoherence of the light field depends on the roughness of the hairy glass itself, and the relationship between imaging quality and coherence cannot be deeply investigated. In recent years, with the continuous improvement of light field modulation equipment and technology, spatial light modulator (SLM) has become a core product in the field of light field modulation. We propose to construct a demonstration module for classical ghost imaging based on SLM implementation of pseudo-thermal light field preparation and object generation.

### Application areas

- | Target detection | Optical Encryption | Biomedical
- | Optical Teaching Demonstration | Optical field coherence measurement | Military target analysis, etc.