

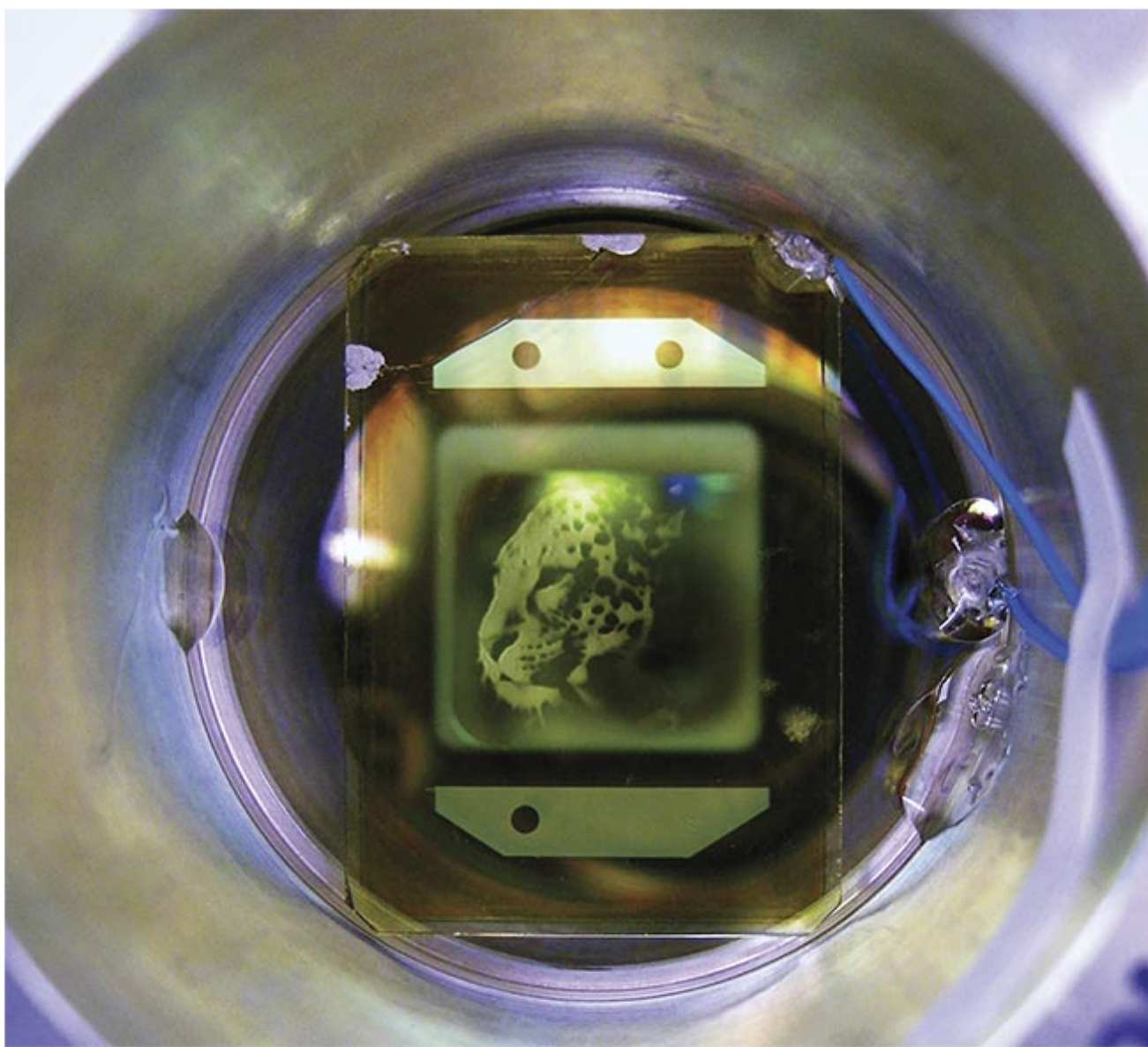


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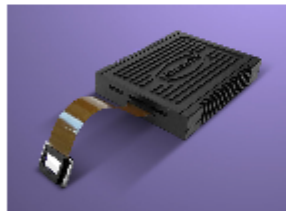
Beyond Displays, Liquid Crystal Optical Devices Harness Rugged Dynamics



The ability of liquid crystals to avoid certain critical size limitations that affect most solid crystals enables their usefulness for applications in precision optics. Their use in flat panel displays such as television screens and computer monitors demonstrates that liquid crystals do not face these size limitations. This allows them to be particularly effective as optical devices, enabling users to take advantage of important properties of laser light.

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Featured Products



[Spatial Light Modulator](#)

Laser Components USA Inc.

The GAEA-2 spatial light modulator from Laser Components USA Inc. and HOLOEYE Photonics AG consists of a driver unit with an HDMI standard digital video interface and a phase-only liquid crystal on silicon micro display. The plug-and-play device is offered in VIS (420 to 650 nm), NIR (650 to 1100 nm), and telecommunication (1550 nm) wavebands.

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[Liquid Crystal Polarization Gratings](#)

Meadowlark Optics Inc.

These transmissive gratings efficiently (>99.5%) diffract circularly polarized light to the first positive or negative order, based on the handedness of the incident light. By incorporating fast electro-optic half-wave polarization retarders to control the handedness of polarization, we can develop custom LCPG devices and systems with a range of leading capabilities for Coherent Doppler Lidar, High-Definition Time-of-Flight Imaging, Non-mechanical Refocusing in Microscopy, and more.

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