

PRESS RELEASE

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Mirrorcle concludes CES 2026 and Photonics West 2026 exhibitions and announces new products

For Mirrorcle Technologies, 2026 started with two successful exhibitions, namely CES in Las Vegas and SPIE Photonics West in San Francisco. The company was represented in booths at both shows and drew many visitors, both new prospective clients as well as established customers, vendors and collaborators. As the company is officially celebrating its 21st birthday this month, Mirrorcle looks back at as many years of growth and continuous improvement and expansion of world-leading MEMS mirror manufacturing. Some of the key novelties at the three shows included a new set of single-axis resonant MEMS mirrors for highest-speed controlled line-scanning applications, novel packaging solutions targeting both miniaturization and further improvements on mass reduction and compactness as well as tailored solutions for space applications and others that require hermetically sealed packaging options. This wider portfolio of products serves an ever-increasing depth and broadening of customers across many industries – all of whom leverage the gimbal-less MEMS mirror design that makes the Mirrorcle products unique.



Figure 1: Mirrorcle teams at CES 2026 and Photonics West 2026 exhibitions.

The company introduced a significantly expanded portfolio of high-performance Micro-Electro-Mechanical Systems (MEMS) in the single-axis resonant mirror category (“1DR”). These devices have a track record of enabling breakthroughs in biomedical imaging and therapy solutions, and they are in general designed to meet the growing demand for smaller, more efficient, and robust optical scanning solutions. This new product line offers an exceptional balance of mechanical angle, frequency, and mirror size, providing engineers with versatile options for their next-generation designs.

This extensive portfolio of resonant mirrors is ideal for applications demanding precision and reliability in a miniature footprint. Key applications include:

- Lidar systems for autonomous navigation and mapping
- Structured lighting for 3D sensing and gesture recognition
- Compact pico-projectors and head-up displays (HUDs)
- Biomedical imaging technologies, such as optical coherence tomography (OCT), sheet microscopy, multi-photon imaging, confocal imaging

The 1DR MEMS Mirrors offering is in the highly compact die form factor compatible with the smallest and lowest weight packages such as those that have enabled breakthroughs in miniature two-photon microscopy (“Mini2P”). Furthermore, Mirrorcle is in the process of designing even more compact packaged and connectorized MEMS Mirrors with ultra-low mass.

The key specifications of the 1DR product line include:

| Part Name | Mech. Angle | Package | Resonant Freq. | Mirror Sizes |
|-----------------|-------------|----------|----------------|------------------------|
| A9R8B.3-800DAL | ±8.5° | TINY48.4 | ~28.1 kHz | Integrated Ø0.8mm (AL) |
| A9R8.3-800DAL | ±8.5° | TINY48.4 | ~26.5 kHz | Integrated Ø0.8mm (AL) |
| A9R8.1-800DAL | ±8.5° | TINY48.4 | ~22.2 kHz | Integrated Ø0.8mm (AL) |
| A9R12.3-1200DAL | ±8.5° | TINY48.4 | ~16.3 kHz | Integrated Ø1.2mm (AL) |
| A9R12.1-1200DAL | ±8.5° | TINY48.4 | ~12.8 kHz | Integrated Ø1.2mm (AL) |
| A9R14.1-1400DAL | ±8.5° | TINY48.4 | ~8.4 kHz | Integrated Ø1.2mm (AL) |
| A9R16.3-1600DAL | ±6.5° | TINY48.4 | ~6.3 kHz | Integrated Ø1.6mm (AL) |
| A9RB.1-1600 | ±8.5° | TINY48.4 | ~4.6 kHz | Bonded Ø1.6mm (AL/AU) |
| A9RB.1-2000 | ±8.5° | TINY48.4 | ~3.4 kHz | Bonded Ø2.0mm (AL/AU) |
| A9RB.1-2400 | ±8.5° | TINY48.4 | ~2.6 kHz | Bonded Ø2.4mm (AL/AU) |

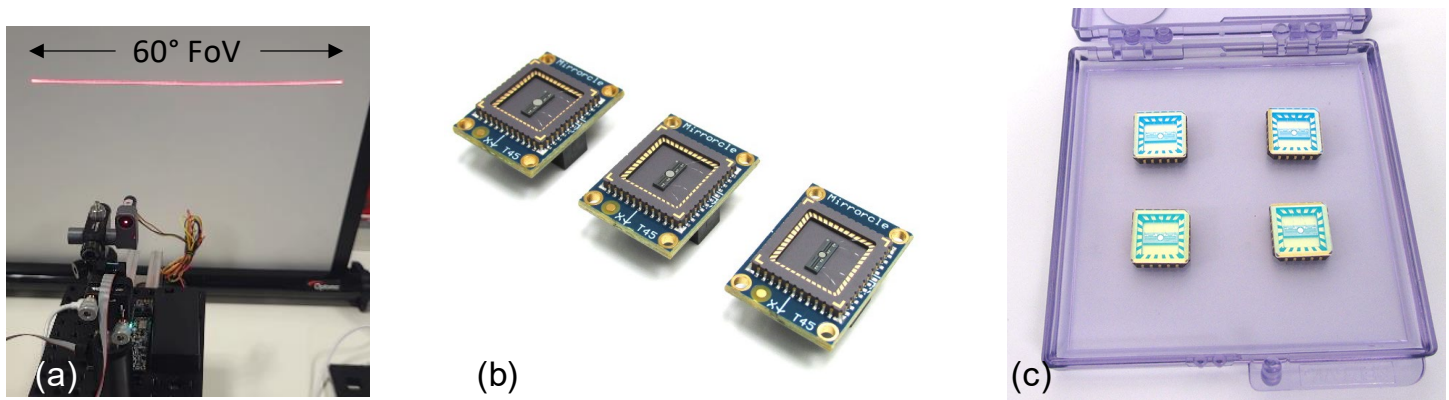


Figure 2: (a) 60° FoV scanned 1DR device, A9RB.1-1600-TINY48.4-A/W/EP, showcased at Mirrorcle's booth during the Photonics West 2026 exhibition at Moscone Center in San Francisco, CA. (b) Examples of various integrated design 1DR MEMS devices in Mirrorcle's standard TINY48.4 package. (c) Examples of 1DR devices ready for delivery in the non-standard LCC20 ceramic package, with a B-Type (NIR wavelengths coating) cover attached, in a Gelpak.

Among the unique design advantages our new offerings feature a versatile Frequency Range from ~2.6 kHz to ~22.2 kHz, allowing engineers to select the optimal frequency for various sensing or display requirements. Furthermore, the new Mirrorcle resonators offer established robust MEMS construction and versatile integrated or bonded mirror options with Aluminum (Al) or Gold (Au) coatings (bonded mirrors only). Users benefit from durability and high reflectivity across different

wavelengths. All of these listed models offer very high mechanical scanning angle as specified here. However, in internal reliability tests our team often overdrives such actuators to as high as 60° optical FoV in 500+ hour stress tests. "Historically the world knows us as the providers of the best quasi-static MEMS mirrors with the most comprehensive portfolio. Nevertheless, customers' ever-expanding demand and push into further technological breakthrough has led to increasingly focus on the single-axis portfolio which is now greatly expanded and strengthened. In fact, for some strategic partners we have additional non-standard designs as well." said Dr. Veljko Milanovic, CEO at Mirrorcle Technologies. "We are empowering innovation in areas like LiDAR and 3D sensing, where size, efficiency, and reliability are paramount." He further added that in Q2 of 2026 the company will be unveiling a much smaller and lower weight package for its customers.

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About Mirrorcle Technologies, Inc.

Mirrorcle Technologies, Inc., founded in 2005, is a private California corporation that commercially provides products and laser systems based on its proprietary optical microelectromechanical system (MEMS) technology. Since its founding, and supported by its continuous investment in R&D, the company has been offering the world's fastest point-to-point (quasi-static) two-axis beam-steering MEMS Mirrors, as well as resonant-type micromirror devices with video rates. Mirrorcle is globally the only provider of tip-tilt MEMS actuators in combination with mirrors from submillimeter to several mm in diameter, offering customers a wide selection of specifications to optimize their paths to successful commercialization. Mirrorcle products can be found today in 3D metrology systems, biomedical imaging systems, solid-state LiDARs, AR/VR prototypes, laser projectors, and classrooms. Mirrorcle's system solutions include the world's most compact vector graphics laser projectors and 3D LiDARs.

Mirrorcle maintains multiple cleanroom laboratories at its Richmond, California headquarters, and year-round, 24-7 access to a wafer-based CMOS and MEMS fabrication facility. Beyond its own facilities, the company has established high-volume manufacturing with leading MEMS wafer foundries and qualified opto-mechanical assembly houses.