



## Finisar Showcases Product Innovations at Photonics West 2019

February 5, 2019

### Highlighting market adoption of VCSEL technology for 3D Sensing

SUNNYVALE, Calif., Feb. 05, 2019 (GLOBE NEWSWIRE) -- Finisar (NASDAQ: FNSR), the industry leader in optical communication components and VCSEL technology, today announced its participation at Photonics West with several new innovations highlighting the growth in optics technology in smartphones and automotive sensing. During the exhibition, Finisar will demonstrate VCSEL arrays (Vertical Cavity Surface Emitting Lasers) used in depth-sensing applications, such as 3D facial recognition in consumer mobile devices. The company will also display its line of diffractive optical elements, demonstrate WaveSource™ technology, and introduce a new high-speed photodetector. See these market-leading products and demonstrations in Finisar's booth #4045 at the San Francisco Moscone Center, February 5-7.

"Finisar is excited to be part of this surge in adoption of laser and optics technology for sensors in smartphones, automobiles, and smart home appliances, amongst dozens of other applications. VCSELs are a key enabler in the broad use of 3D sensing and imaging technology, and the electronics industry is starting to recognize this and the value that Finisar brings," said Craig Thompson, Vice-President of New Markets, Finisar.

#### Finisar's demonstrations at Photonics West 2019 will include the following:

- A 3D camera, utilizing VCSEL technology as the IR source, to demonstrate 3D depth sensing. Designed by Finisar partner Gener8, the 3D camera provides an accurate, high resolution and real-time 3D 'depth map' of the scene, allowing a consumer device or a car to see in 3D, recognize movements or 'gestures' and map objects in detail. The set-up will allow attendees to interact with the live camera;
- An active demonstration of diffractive optical elements (DOEs) that shape, steer and control the light output from a laser (e.g. VCSEL) in a 3D sensor. Finisar will show various functions using a beam profiler;
- Finisar's WaveSource™ laser unit demonstrating high-speed programmable wavelength tuning with support of a WaveAnalyzer 1500S optical spectrum analyzer;
- A display of the company's market-leading product line of ultra-high-speed photodetectors, including a 70GHz dual wavelength device, useful in coherent test and measurement systems and ultra-high RF output power photodetectors suitable for microwave photonics and Radio over Fiber applications.

In addition to these demonstrations, Hao Chen, Principal Engineer for 3D Sensing products at Finisar, will present "Cost-effective monolithically integrated surface grating for polarization-stable VCSELs" on February 7<sup>th</sup> at 11:00AM in Room 159, South Upper Mezzanine. The presentation will describe a shallow semiconductor grating that has been developed as an important add-on feature of Finisar's VCSEL product family for low-cost yet highly-effective polarization control in a range of different sensing applications. This is one of many examples of the continued innovation in VCSEL technology that Finisar is leading.

Finisar provides a free on-line resource to explain VCSEL technology, its benefits, history, and exciting new applications at this website: [www.MYVCSEL.com](http://www.MYVCSEL.com). For additional information about Finisar products visit [www.finisar.com](http://www.finisar.com).

#### About Finisar

Finisar Corporation (NASDAQ: FNSR) is a global technology leader in optical communications, providing components and subsystems to networking equipment manufacturers, data center operators, telecom service providers, consumer electronics and automotive companies. Founded in 1988, Finisar designs products that meet the increasing demands for network bandwidth, data storage and 3D sensing subsystems. The company is headquartered in Sunnyvale, California, USA with R&D, manufacturing sites, and sales offices worldwide. Visit our website at [www.finisar.com](http://www.finisar.com).

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