

## New Product Announcement

# Now at Mouser: STMicroelectronics' VL53L0X Time-of-Flight Ranging Sensor Offers Fast Ranging of Greater Distances

**August 1, 2016** – [Mouser Electronics](http://www.mouser.com), Inc. is now stocking the [VL53L0X](http://www.st.com) laser-ranging sensor from [STMicroelectronics](http://www.st.com) (ST). The VL53L0X time-of-flight (ToF) sensor integrates a leading-edge single photon avalanche diode (SPAD) array and the second generation of ST's FlightSense™ technology to extend the measurement range up to two meters. The sensor offers ranging as fast as 20ms, and reports distance accurately regardless of target reflectance and color. The [sensor](#) supports a variety of applications, including user-detection in [computers](#) or tablets, landing assist for drones, and a wide array of functions in [Internet-of-Things](#) (IoT) devices.

[ST's VL53L0X](#) ToF sensor, available from Mouser Electronics, benefits from the same technology as ST's ToF sensor already being used in laser-assisted camera auto-focus in smartphones, and can distinguish movement towards or away from the sensor or from side to side. Distance is calculated internally and communicated over I<sup>2</sup>C, minimizing demands on the system host controller. The VL53L0X's integrated, eye-safe laser emits non-visible light of 940nm wavelength, which eliminates the distracting red glow typically associated with other infrared proximity sensors and improves immunity to interference from external light sources. Coupled with internal physical infrared filters, the laser enables longer distance ranging, higher immunity to ambient light, and better robustness to cover-glass optical cross-talk.

The highly [energy-efficient](#) sensor consumes only 20mW in active ranging mode and draws just 5µA in standby mode. At 2.4mm × 4.4mm × 1mm, it is the smallest ToF sensor on the market. The sensing capabilities of the VL53L0X can support a wide range of functions, including gesture sensing or proximity detection for user interfaces, obstacle detection for [robotics](#), and hands-free operation of home appliances or [industrial](#) devices such as faucets and soap dispensers.

To learn more, visit <http://www.mouser.com/new/stmicroelectronics/stm-vl53lox-sensor/>

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### **About Mouser Electronics**

Mouser Electronics, a subsidiary of TTI, Inc., is part of Warren Buffett's Berkshire Hathaway family of companies. Mouser is an award-winning, authorized semiconductor and electronic component distributor, focused on the rapid introduction of new products and technologies to electronic design engineers and buyers. Mouser.com features more than 4 million products online from more than 600 manufacturers. Mouser publishes multiple catalogs per year providing designers with up-to-date data on the components now available for the next generation of electronic devices. Mouser ships globally to over 500,000 customers in 170 countries from its 750,000 sq. ft. state-of-the-art facility south of Dallas, Texas. For more information, visit [www.mouser.com](http://www.mouser.com).

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