

LeddarTech launches *LeddarVu*, a new scalable platform towards high-resolution LiDAR

QUEBEC CITY, QC – September 7, 2016 – LeddarTech, a leader in solid-state LiDAR technology, today introduced LeddarVu, the new platform for the next generation of its Leddar detection and ranging modules. Presented during the InterDrone Conference and Exposition (Sept. 7-9, 2016), the LeddarVu platform combines the benefits of a very compact, modular architecture with superior performance, robustness and cost efficiency towards high resolution LiDAR applications, such as autonomous driving.

LeddarVu – The new platform for the next-generation of Leddar sensors

Leveraging LeddarTech's advanced, patented signal processing and algorithms, LeddarVu sensors will evolve along with the future generations of the LeddarCore ICs. As previously announced with the company's development roadmap, upcoming iterations of LeddarCore ICs are expected to deliver ranges reaching 250 m, fields of view up to 140°, and up to 480,000 points per second (with a resolution down to 0.25° both horizontal and vertical), enabling the design of affordable LiDARs for all levels of autonomous driving, including the capability of mapping the environment over 360° around the vehicle.

LeddarVu also adds the capacity to interchange various types of optical components from different suppliers to ensure the rapid development and integration of new module configurations that are optimized for specific applications or requirements.

Vu8 – 8-segment LiDAR sensor module

LeddarTech showcased the Vu8, the first module based on the new LeddarVu platform. The Vu8 is a compact solid-state LiDAR that provides highly accurate multi-target detection over eight independent segments. Detecting targets at up to 215 m range and weighing only 75 grams, the Vu8 delivers nearly twice the range for half the volume compared with the Leddar M16 from which it inspires. The Vu8 uses a fixed laser light source, which significantly increases the sensor's robustness and cost-efficiency compared with any scanning LiDAR solution.

LeddarVu's high tolerance to noise and interference means it remains unaffected by other sensors' signal, by lighting conditions including direct sunlight, and that it provides reliable detection in various weather conditions including rain and snow.

"With better range, smaller form factor and the added value of modularity, our clients will benefit from a wider choice of configurations than ever before, along with increased ease of integration into their applications," explained Michael Poulin, LeddarTech's Director of product management. *"LeddarVu represents a powerful base for a whole new generation of compact Leddar sensors delivering unbeatable performance for the price,"* he added.

The Vu8 sensor is particularly suited for navigation and collision avoidance applications in driver-assisted, semi-autonomous and autonomous vehicles, such as drones, trucks, heavy equipment for construction and mining, shuttles, buses and other public transportation vehicles. Applications such as Advanced Traffic Management System (ATMS) requiring longer ranges as well as wide fields of view will also benefit greatly from the new Vu8 sensor offering. The Vu8 modules are available today in various field of view options at a list price starting at \$475, with discount quantities available.

[Access the LeddarVu webpage](#)

[Download the LeddarVu Presskit](#)

About LeddarTech (www.leddartech.com)

LeddarTech is the developer and owner of Leddar, a patented LiDAR sensing technology that constitutes a novel approach in object detection and ranging. Developed over 10+ years of R&D, Leddar is a unique combination of advanced light wave signal processing and software algorithms that enables the development of highly customizable and cost-effective sensing devices for multiple markets such as automotive, drones, or industrial automation. LeddarTech is a spin-off of Canada's leading optics and photonics institute, INO.

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