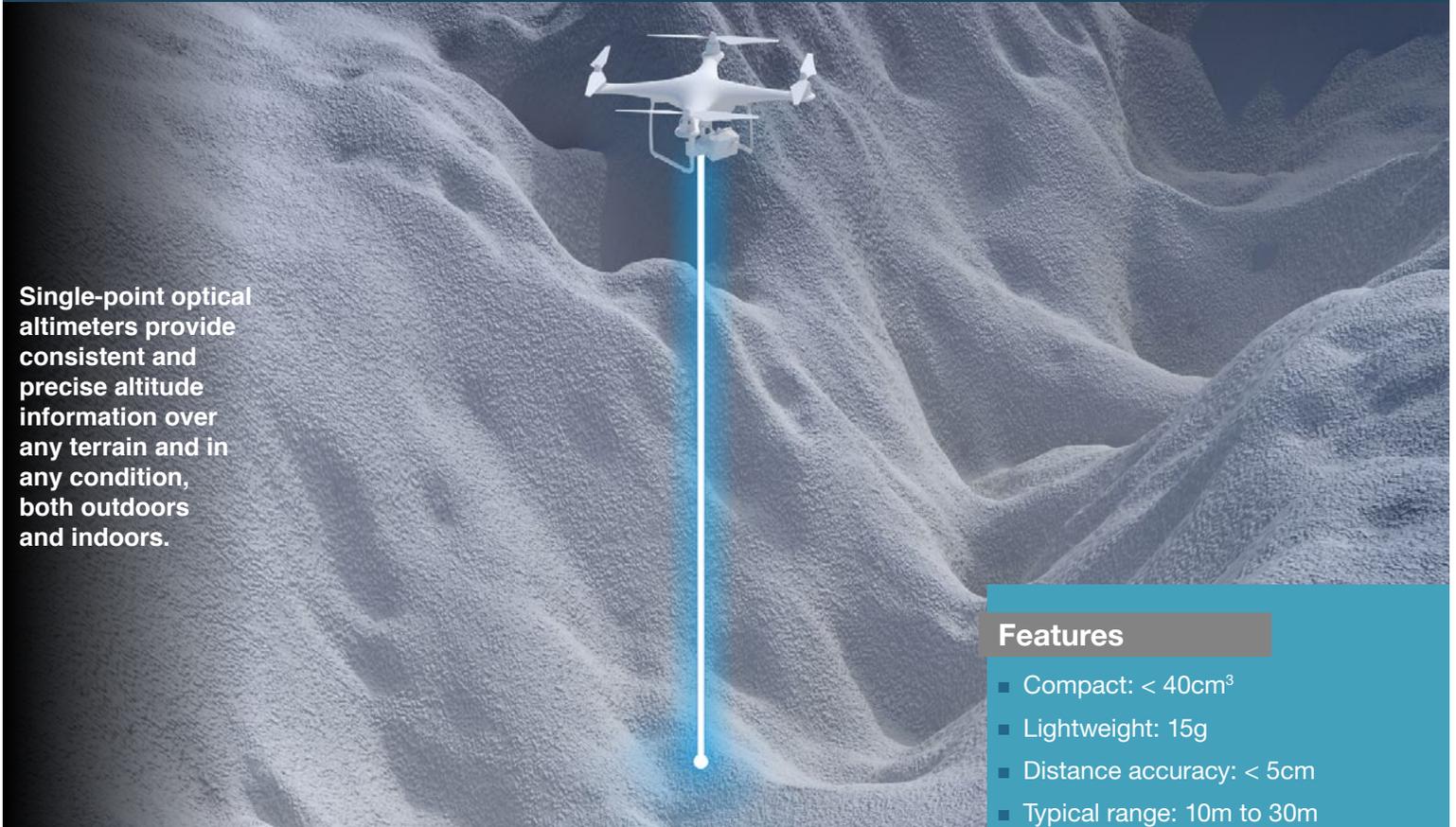


## Leddar UAV altitude optical sensors

New technology provides the right combination of range, accuracy, and reliability for indoors and outdoors

Single-point optical altimeters provide consistent and precise altitude information over any terrain and in any condition, both outdoors and indoors.



Accurate altitude data is a key navigation parameter for both UAV flight controllers and remote pilots in charge of critical mission.

While on-board equipment, such as the GPS and barometer, generally provide very useful information during flights, they aren't full-proof—even outdoors—and can't be relied upon when navigating indoors.

Experienced pilots know how to navigate and land their UAVs manually with a lot of dexterity. Still, the risks of damaging valuable payload or the UAV itself from inaccurate altitude estimations or faulty terrain information pushes many drone operators and manufacturers to rely on landing assistance systems that use high-precision altitude measurement solutions that will perform flawlessly in any possible flight scenario.

### Features

- Compact: < 40cm<sup>3</sup>
- Lightweight: 15g
- Distance accuracy: < 5cm
- Typical range: 10m to 30m
- Operating temperature: -45° C to + 85° C
- Rapid data acquisition time: up to 140 Hz

### Key Benefits

- True height above ground level (AGL) measurements
- High accuracy and stability
- Reliable operation indoors and outdoors, even in harsh environmental conditions
- Immune to light, noise, vibrations, wind
- Eye-safe

## Leddar: superior performance for any environment

Leddar-based optical altimeters provide the range and accuracy expected for today's drone operations. They are the perfect sensors for integration in autonomous takeoff and landing capabilities.

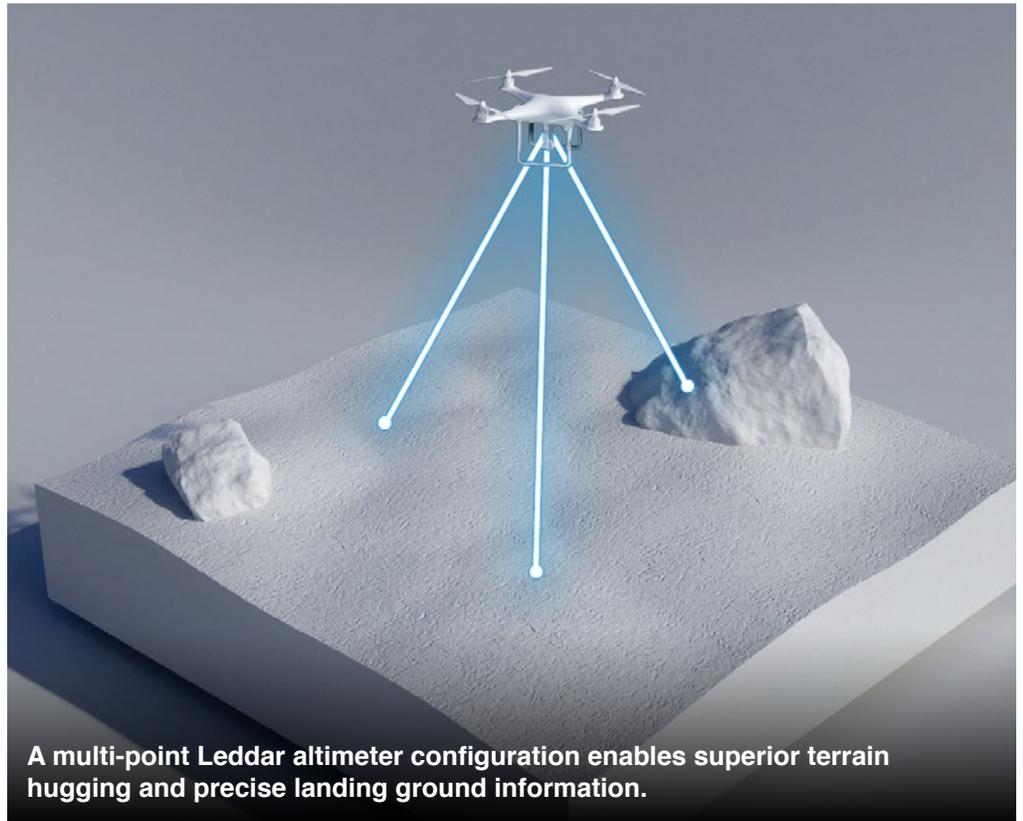
They deliver consistent, reliable performance in the most challenging environmental conditions: indoors or outdoors, rain or shine, and from searing hot to very cold temperatures. They also provide accurate measurements over any type of terrain, surface, and texture.

Thanks to highly-efficient built-in processing and patented algorithms, Leddar-based sensors achieve such superior performances using inherently eye-safe LED sources or Class 1 lasers.

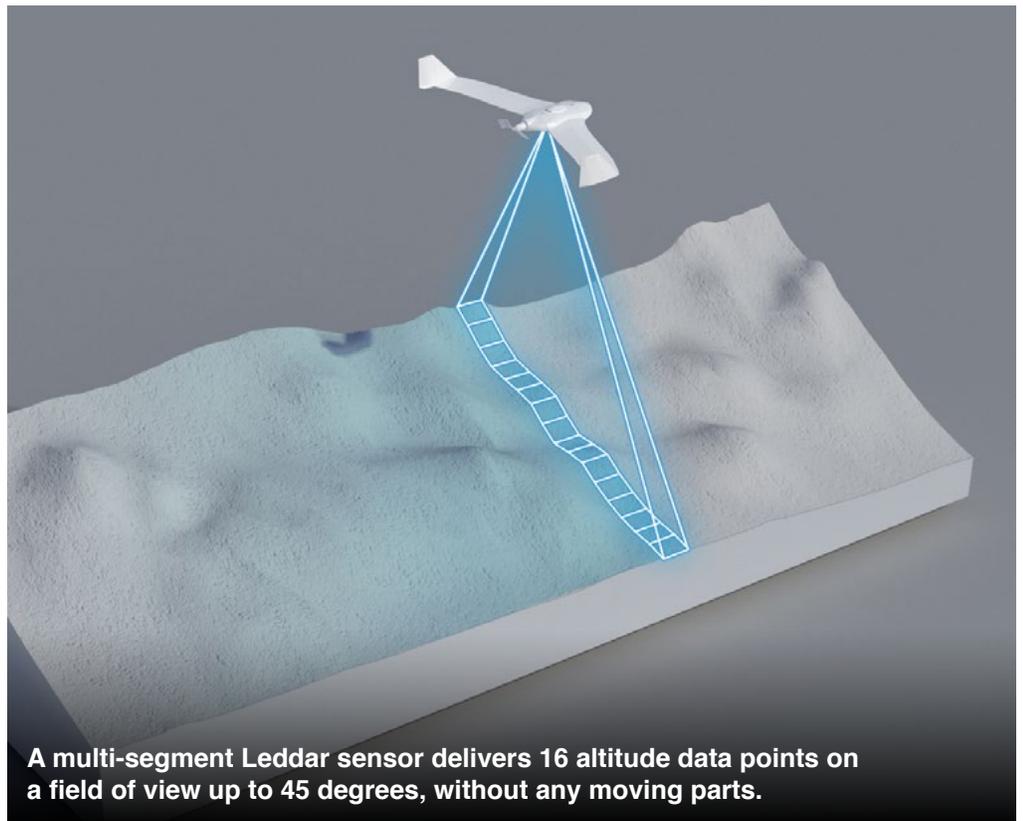
## One technology, multiple possibilities

Leddar is a patented optical detection and ranging technology at the heart of compact, highly efficient detection and ranging sensor modules. Stemming from a decade of focused R&D, Leddar sensing technology has already been deployed in many industries and applications.

Leddar sensor modules come in various single- or multi-segment configurations to fit specific applications. For more demanding requirements, multi-point altitude measurements can provide rich terrain information that enhances your UAV navigation and landing capabilities.



**A multi-point Leddar altimeter configuration enables superior terrain hugging and precise landing ground information.**



**A multi-segment Leddar sensor delivers 16 altitude data points on a field of view up to 45 degrees, without any moving parts.**

Ask us about Leddar sensing technologies for drones-UAVs: [leddartech.com/en/contact-us](http://leddartech.com/en/contact-us)