

Rangefinders



! The challenge

Laser rangefinders are moving rapidly from specialist tools into consumer products for golf, hunting, and industrial use.

During the design phase, one challenge is often underestimated: hand movement. Even at modest 6x magnification, small angular motion can shift the target, making observation through the device uncomfortable.

Additionally, as the aiming point becomes unstable, the measurements slow down, and missed or inconsistent readings occur – reducing confidence, precision, and usability in real-world conditions.

For example, with a golf rangefinder, the user must hit a tiny flagstick from hundreds of meters away. Even slight hand shake can push the laser off target, causing repeated, slow, and frustrating measurements.



Optotune's solution

Optotune's tunable prism provides optical image stabilization (OIS), counteracting vibration and elevating the user experience to the next level.

With a large clear aperture in a compact body, the tunable prism opens the door to a new generation of image-stabilized rangefinders.

This new device offers a fast, smooth, and noiseless solution that delivers a convincing experience from the first trial.

Advantages

- ✦ **Large clear aperture:** 17 mm
- ✦ **Compact body:** 25 mm wide
- ✦ **High optical tilt angles:** up to 1°
- ✦ **Fast, smooth and noiseless motion**

Golf rangefinders

Pushing your game to the next level

Image stabilized golf laser rangefinders give players fast, accurate distance readings to the flag, hazards, or landing zones. This helps choose the right club, improve shot planning, build confidence, and speed up decision-making on the course.



Hunting rangefinders

Knowing the accurate distance to a target

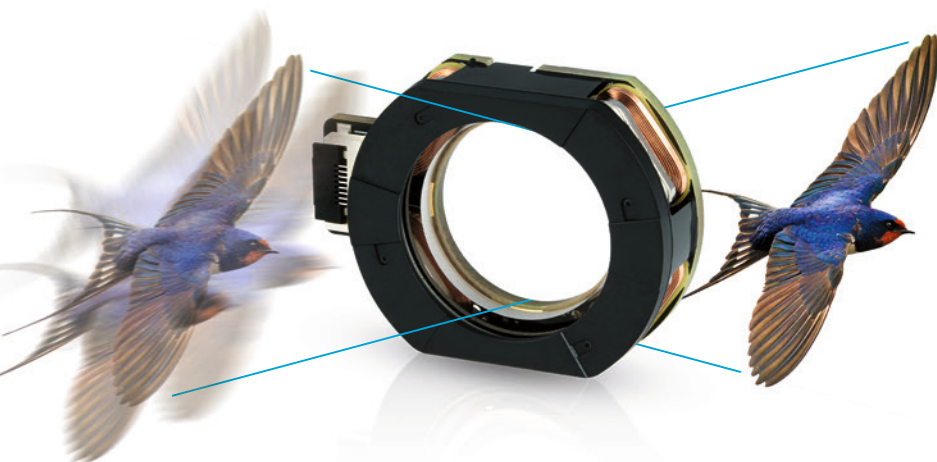
For hunters, a rangefinder is essential. Without accurate mapping of the hunting area and reliable measurements in high-pressure moments, uncertainty can become too high for a confident shot. OIS adds fast target acquisition, stable tracking, and reliable measurement, thus eliminating this barrier.



Industrial rangefinders

Precision matters

In industrial rangefinders, OIS improves stability for forestry and building measurements, where hand movements can cause wrong target hits and costly errors. More reliable distance measurements support accurate timber volume, safer planning, precise construction work, and fewer remeasurements.



Tunable prism

Advanced optical image stabilization with flexible combinations of high frequency and large tilting angles, adaptable to your application.

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