

Binoculars



! The challenge

Binoculars are widely used across the consumer sector, from birdwatching, hiking, boating, and travel to hunting, sports, and events. But the user experience is often limited by hand movements: already at 10x magnification, small motions turn into a shaky image that makes observation tiring and imprecise.

As magnification increases, the effect becomes even stronger, reducing detail recognition, comfort, and confidence in what the user sees.

A few models are equipped with image stabilization, but these solutions are traditionally bulky and paired with lower quality lens systems as their premium counterparts.

For example, some users are looking for models that combine high-performance image stabilization, premium "alpha" lenses, sleek design, and an affordable price tag.



Optotune's solution

Optotune's tunable prism enables fast, smooth, and silent optical image stabilization (OIS) in a compact form factor.

It helps suppress shaking before the image reaches the sensor or eye, improving comfort, detail recognition, and target confidence even at higher magnifications.

With its large clear aperture and low-power operation, it supports sleek binocular designs that combine premium optical performance with broader consumer accessibility.

Advantages

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

Outdoor binoculars

Observing the wonders of nature

OIS makes outdoor binoculars easier to use for birdwatching, animal observation, hiking, and travel. By counteracting hand movements, it provides a steadier image, faster target finding, better detail recognition, and less eye fatigue. A compact OIS design also reduces bulk and weight, which matters when users carry binoculars outdoors.



Hunting binoculars

Accuracy and endurance

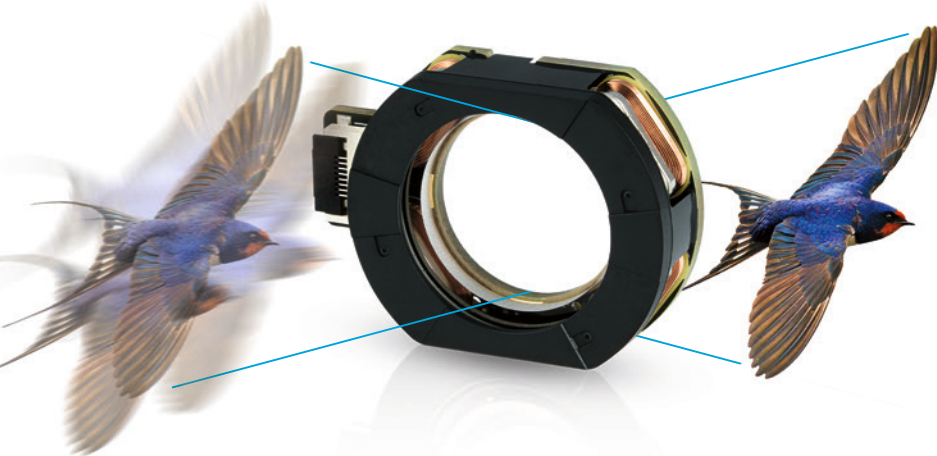
Hunting binoculars benefit greatly from OIS. It enables steadier observation, smoother tracking, and better detail recognition at a distance. A compact, low-power OIS solution keeps the device lighter to carry and extends battery life, which is critical during long hunting sessions in the wild.



Marine binoculars

Always in motion

Users of marine binoculars are never steady. Boat motion, waves, and engine vibration multiply the need for image stabilization. OIS enables clearer identification of buoys, vessels, coastlines, or hazards, less eye fatigue, less dizziness and greater confidence during navigation.



Tunable prism

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

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