



Liquid lens solution for OMS/DMS



Corning® Varioptic® is manufacturing variable focus lenses that can accommodate from a few centimeters up to infinity. In the automotive industry, the growing need for occupancy monitoring inside a vehicle faces the challenge to capture in focus every passenger no matter their height or seat positioning. Thanks to the liquid lens, OMS and DMS camera modules can automatically refocus to ensure the sharpest images are recorded every time.

Customer's expectations

Our customer's request is to develop a fast focus near infra-red camera module with the following constraints:

- Focus control from 2m down to a few centimeters
- Can sustain harsh environmental conditions
- Fast auto-focus

An additional request was to have a compact and low-cost solution.

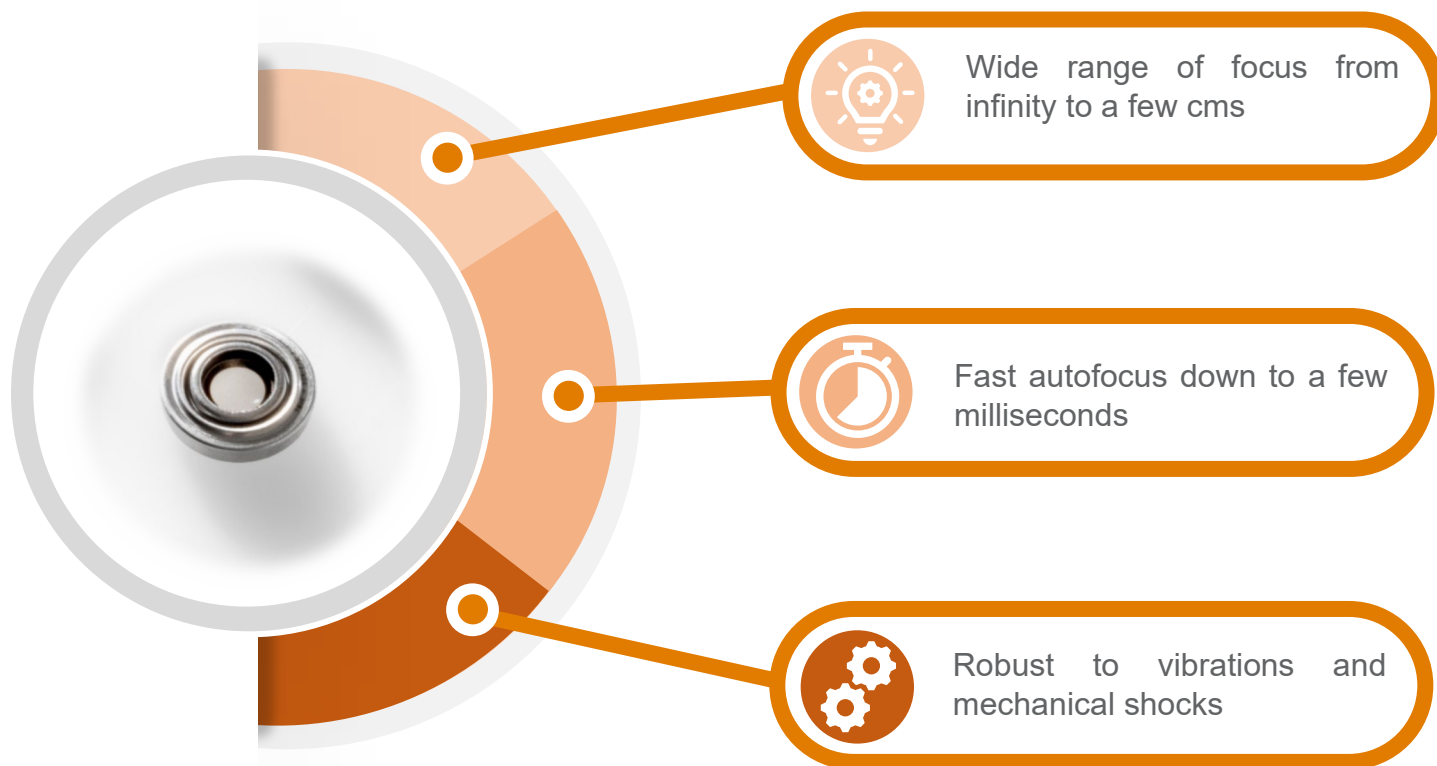
Selection of a liquid lens optical module

Based on the customer's optical requirements, Corning® Varioptic® selected the A-25H1 to be integrated into a near infra-red camera module.

This lens can sustain a wide range of temperatures and endure up to hundreds of millions of cycles. Additionally, liquid lenses have no moving parts which makes them extremely robust to vibrations and mechanical shocks. It can also provide the autofocus functionality to large lens groups unlike conventional actuators which are limited by the weight of the optics to move.

The A-25H1 lens is compact, low power and has a low wave front error which makes it suitable for high resolution imaging in embedded systems.

Key solution highlight



Contact us

You would like to know more about our products, or you have a specific use-case in mind?

Please visit our website: [Corning® Varioptric®](https://www.corning.com/varioptric)

Or contact us at varioptric@corning.com

Disclaimer

This content is owned by Corning® Varioptric®. Any re-use of this content can only be done after written permission by Corning® Varioptric®.