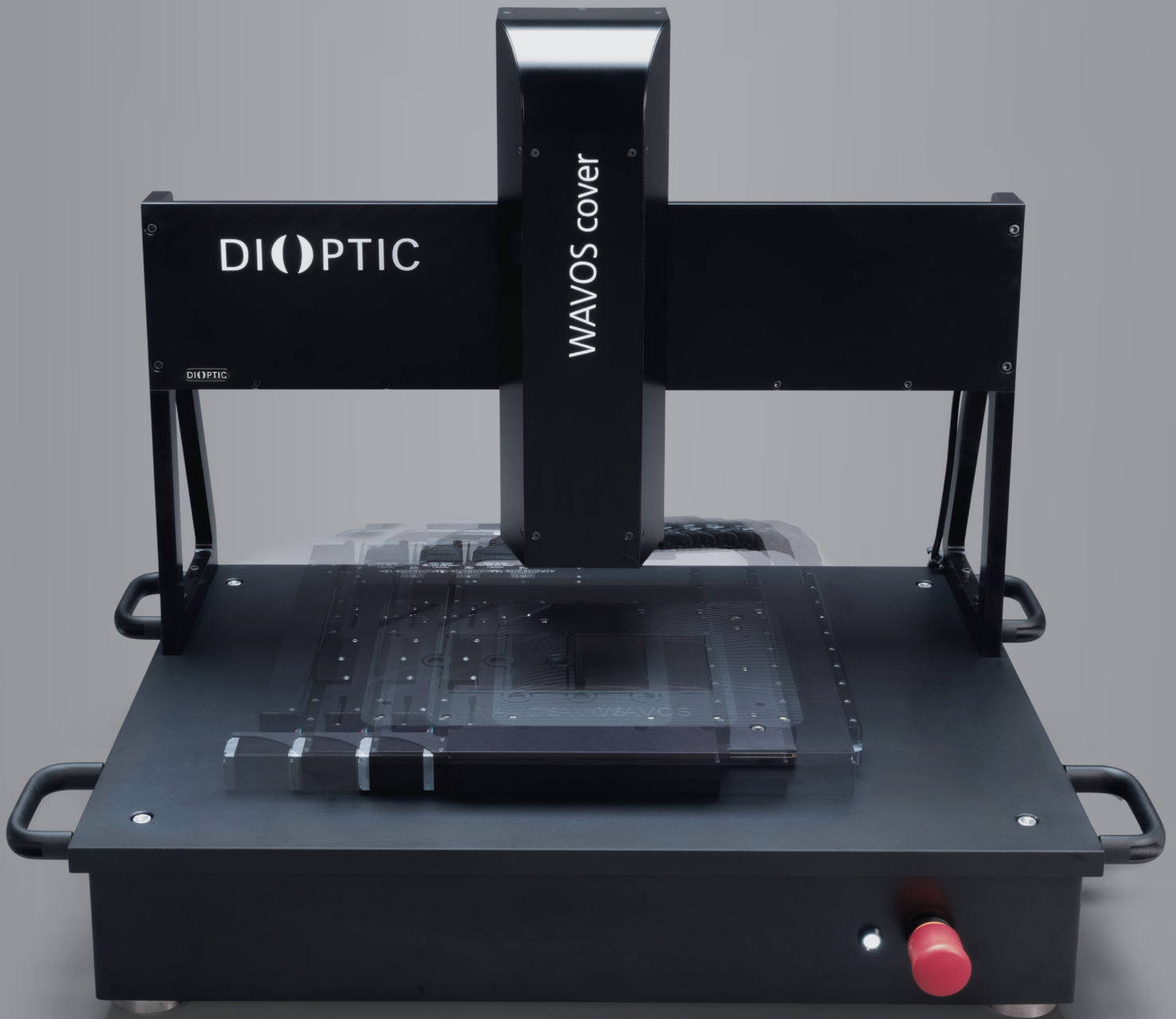


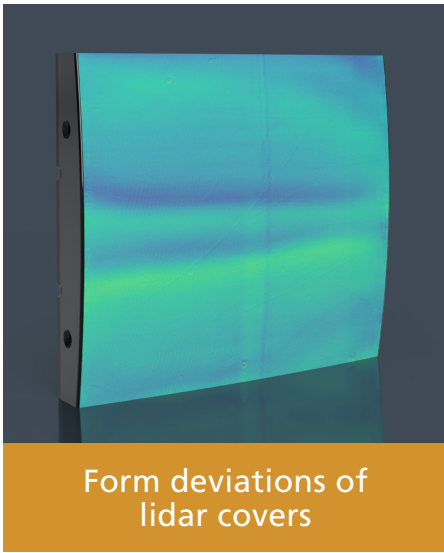
WAVOS cover

Lidar cover inspection

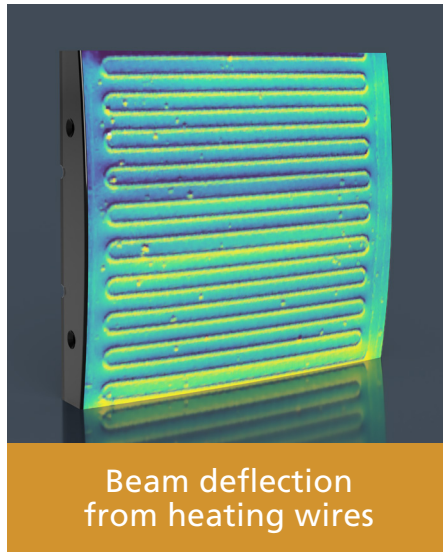
DI OPTIC
creating optical solutions



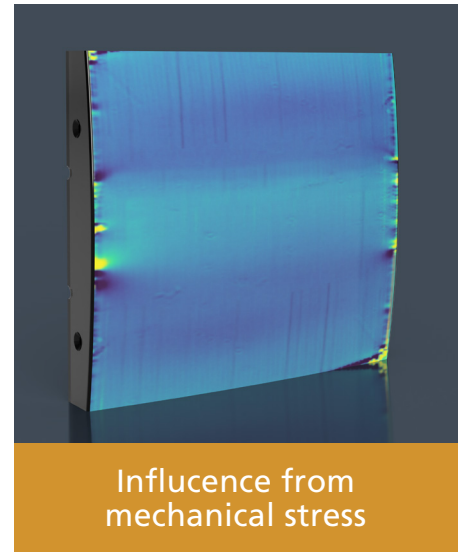
- SPATIALLY RESOLVED DEFLECTION TESTING
- IDENTIFY: STRESS, HEATING, FORM DEVIATIONS
- RELIABLE QUALITY CONTROL



Form deviations of lidar covers



Beam deflection from heating wires



Influence from mechanical stress

We thank OECHSLER AG for collaboration and provision of samples.

BENEFITS

WAVOS cover tests the deflection of lidar beams by the sensor cover.

WAVOS cover can be applied to different cover shapes.

Measure the impact of form deviations and refractive index.

Analyse impacts from mechanical and thermal stress.

Ensure continuous quality standards in series production.

Test lidar covers quality before sensor assembly.

FUNCTIONALITY

WAVOS cover is designed to measure transmitted light deflection fields. The measurement spatially resolves the angle of transmitted light changed by optical elements (e.g. Lidar covers or windows). Applications range from optimization during Lidar development to pass-fail quality control in series production.

WAVOS cover can be adapted to various needs regarding illumination wavelength, sample geometry or automated batch inspection.

For process integration or sensors under development data exchange and automated reports can be accessed via software interfaces.

SPECIFICATIONS

Angular resolution	< 1/1000°
Dynamic range	± 0.8°
Lateral resolution	0.2 mm
Field of view	300 x 300 mm ²
Available light source	880 nm, 905 nm, 940 nm, custom
Live view mode	5 Hz
Materials	glass, plastics