

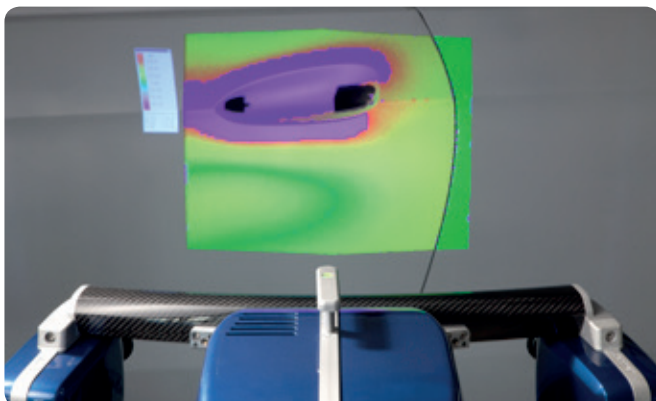


stereoSCAN neo

The new benchmark in fringe projection

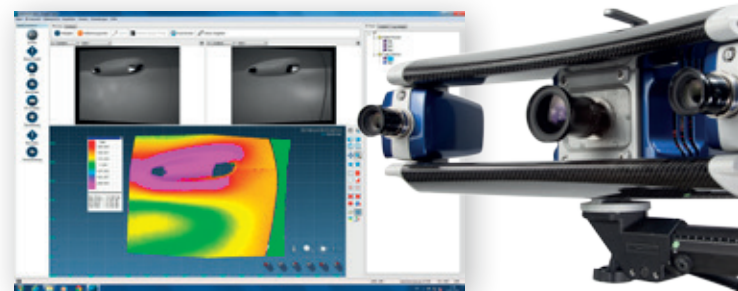
The fringe projection technique for the purpose of three-dimensional surface acquisition is a well established procedure both in industrial and non-industrial applications. Using this contact-free optical scanning technology, even complex surface structures are captured swiftly and at a high level of accuracy. Owing to its exceptional mechanical and thermal stability, AICON's high-end stereoSCAN series can be employed in a multifaceted array of applications. Given their extremely sturdy design, the two-camera systems are renowned for extraordinary ruggedness and precision. Thanks to the exceptional stability of the CFRP double structure, the highest requirements in inspection and reverse engineering are met both in the measuring room as well as under production conditions.

The stereoSCAN neo is the result of consistent further development of the classic high-end stereoSCAN system series. Previously, the performance capability of the fringe projection was highly dependent on the surface properties of the scanning object. The color and reflection properties of the object surface had a significant effect on the quality of the measurement results. This is where the digital adaptive full color projection technique of the stereoSCAN neo provides the necessary rectification by using color and intensity control to optimally adjust to the given surface properties.



The principle of "See What You Measure"

"See What You Measure" – AICON consistently continues its innovation strategy and enters into a new dimension of fringe projection. Using the SWYM technology, it is now possible for the first time to visualize the results of a measurement directly on the object. The adaptive full color projection technique enables projection not only of the color patterns which are necessary for the scanning process onto the object, but also of the generated measurement results. This, for instance, allows for the deviations from the CAD to be visualized in color immediately following the measurement on the surface of the scanned object.



This procedure provides the user with totally new possibilities during the workflow. In the tooling and molding industry or in the context of model making, deviations of the component surface can be measured and visualized quickly and precisely by using the SWYM technology. Based on the projected deviation images, corrections on the object can be made promptly and on site. In a similar way, deviations in the context of inspection tasks can be made visible immediately and the necessary rectification measures can be taken right away.

Highest resolution sensor technology for maximum level of detail

Equipped as 8 or 16 megapixel digital camera versions, the stereoSCAN neo provides the best arrangement required for the maximum degree of detail for the object acquisition process. In addition, measurement fields of 75 mm up to 1,100 mm can be captured by changing the camera lenses and the base length.

This makes the stereoSCAN neo the most powerful and versatile white light scanner currently available on the market.



stereoSCAN neo

YOUR ADVANTAGES AT A GLANCE:

- ✓ 3D scanning at the highest precision
- ✓ Adaptive full color projection with color and intensity control
- ✓ Color back projection of measurement results (e.g. CAD comparison)
- ✓ Short scanning times through fast digital projection
- ✓ Quick and easy exchange of measurement fields
- ✓ Maximum degree of feature accuracy thanks to highest resolution camera sensors
- ✓ Can be combined with a handheld probe
- ✓ Highest stability for scanning in rough production environment

Technical Data

Camera resolution	2 x 8 Mpx or 2 x 16 Mpx
Minimum point distance	18 µm or 12 µm
Smallest field of view	75 mm
Largest field of view	1,100 mm
Acquisition time	Minimum 1 second
Sensor weight	12 kg
Dimensions (W x D x H)	600 mm x 430 mm x 260 mm
Temperature range	Operating conditions 5 °C to 45 °C, non-condensing
Power supply	AC 110/230 Volt, 50-60 Hz
Accessories	Movelspect DPA, MI.Probe mini, turntable, turn-tilt table, tripod, working stations

