

Non Contact & Ultra Fast

- Geometric & surface points control
- Dedicated to production lines
- Fully Automated
- Differed calculation possibility



IVD

Non contact coordinate measuring system for high speed Control & Inspection

Advent™ is a 3D non contact automated measuring machine dedicated to both on and off the production line. It performs geometric as well as surface point measures, 10 times faster than any CMM, with accuracy up to 50 microns.

Advent™ is a vision based system, which relies on a combination of advanced photogrammetry and powerful digital image processing. This unique combination provides a high level of accuracy in the results obtained, whilst increasing the reliability and rapidity of controls performed on parts, organs or complex assemblies.

Advent™ is a complete solution composed both of software and hardware. The software takes in charge the powerful calculation & analysis of the image processing, the photogrammetry process and the results analysis & statistics report. The hardware gets the data, and includes up to 8 IVDs™ (Intelligent Vision Device), a very compact optical sensor that incorporates two high resolution digital high definition CCD cameras, along with a LED light source and a White Light projector. This allows both geometric control and surface point measurements. Each IVD can be mounted on a robot's arm or in a measurement tunnel.

Benefits

- L 30 min to measure an entire car body
- L No impact of robot accuracy on AdventCR global uncertainty
- L Possibility to make measures afterwards
- L No need for specific infrastructures
- L No need to paint the part to be measured
- L No need to put any reflectors (targets) on the part
- L Off line measurement applications
- L In line measurement applications
- L Entire car bodies or sub-units controls

