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AOC is at the forefront of industrial measurement technology. Our hardware capabilities include some of the most recent innovations in laser measurement to enable high-accuracy, rapid capture of 3D information in industrial environments.



Terrestrial Laser Scanners (TLS) permit the rapid capture of millions of accurate 3D data points at distances up to 100 metres. These scanners are ideally suited to as-built documentation of large plants, offshore platforms and other complicated structures. The data can be modelled or used in raw form for clash detection for design and visualisation purposes.

Close-Range Laser Scanners operate at much closer distances (<3m) but the accuracy of data is sub-millimetre. The remote (i.e. non-contact) nature of laser scanning means that hazardous objects can be observed from a safe working distance. Surface shape can be determined even for severely deformed parts through point cloud analysis.

Laser Trackers are a contact method of metrology suited for the analysis of shape compliance of parts. It is particularly suitable for greased parts where optical methods are not possible.

Contact Probe Arms are used for the precise inspection of parts, typically for deformation monitoring. The advantage of an arm is that it can be directed at a feature of interest, unlike laser scanners.

Terrestrial Photogrammetry permits sub-millimetre measurement from remote measurement locations. The camera captures the target at a moment in time. This instantaneous exposure is the main benefit of close range photogrammetry, making it suitable for deformation measurement applications.

Photography of sites may also be accompanied by simultaneous survey observations, to provide a permanent visual record. The photographs can be spatially linked by specialist software.

Dimensional Control involves traditional total station instrumentation. Often total stations are integrated with other instruments or provide control to underpin TLS surveys.

AOC offers a complete range of measurement technologies.

