FUNCTIONALITY LIST
Zenith 21.4.0

CONNECTION OF DEVICES

▸ Connect Kreon arms (Ace and Baces)
▸ Connect Kreon scanners for scanning arms
▸ Connect Kreon Track Ace

SCANNING AND PROBING

▸ Make positioning of the scanner and scan any part
▸ Create probes for arms and calibrate them
▸ Probe geometrical entities: spheres, cylinders, cones, barycenters, lines, planes, circles, arcs
▸ Probe points: continuous (time, distance) and single point acquisition
▸ Diagnostic for Kreon arms

IMPORT/EXPORT

▸ Available import/export formats: IGES, Obj, Ply, Stl, Step, Wrml

FILTER POINT CLOUDS

▸ Remove isolated points
▸ Use divider filter to reduce points number by using a percentage value
▸ Use uniform sampling filter to reduce points number by using a maximum distance from each other

EDITION OF GEOMETRIES

▸ Extract from a point cloud: spheres, cylinders, cones, barycenters, lines, planes, circles, arcs
▸ Extract from a CAD: spheres, cylinders, cones, points, lines, planes, circles, arcs
▸ Create geometries: spheres, cylinders, cones, points, lines, planes, circles, arcs, elipses, oblongs, rectangles, polygons, polylines

ALIGNMENT

Align point cloud to CAD:
▸ Best fit alignment, including a landmark pre-alignment
▸ Geometric alignment with nominal and measured entities
▸ 321 alignment (plane, line, point)
Align two point clouds of the same part:
▸ Registration alignment

MEASUREMENT

▸ Add distance measurement
▸ Add angle measurement
▸ Create Color mapping
▸ Compare points
▸ Add annotations

REPORT

▸ Manage header and footer displays
▸ Simply add entities and screenshots in the report
▸ Add a cartridge
▸ Available save report format (Pdf and Csv)