

COMET[®]plus - FUNCTION OVERVIEW

GENERAL FUNCTIONS:

- COMETplus application in 64bit technology, multi processor support
- Easy to use graphical user interface with adjustable menu buttons
- Integration of video, 3d, and intersection view into the main menu for a comfortable analysis and processing of the measuring data
- Interactive and automatic control of the sensor parameters
- Automatic data exchange with INSPECTplus (optional software package) for the simultaneous inspection (online) of single views (comparison with CAD data by false-color display)
- Wide function variety for file management (storage in binary format, data import and export) and sensor control (switching between measuring modes, calibration modes, non-cooperative surfaces, selection of field of view)

MATCHING AND TRANSFORMATION FUNCTIONS:

- 3-2-1 alignment of coordinate system
- Free matching of data sets based on surface structure with automated pre-alignment
- Automatic tie point matching (using a minimum of only 2 markers)
- Matching with scale bar information (for free matching and matching using tie points)
- Automatic data matching using pre-measured reference points *
- Combination of different matching strategies within one measuring project
- Matching with tolerance settings „constraint matching“
- Group matching (interactive grouping and selection of defined areas for global matching)
- Matching of data sets with different resolution and point density
- Display of the matching quality using false-color-index

DATA EDITING FUNCTIONS:

- Automatic post processing (conversion of pointclouds into triangle meshes, decimation and optimization in one automatic tolerance-based process)
- Automatic editing and optimization of triangle meshes (removing outliers, tolerance-based smoothing, curvature-based decimation, scaling, mirroring)
- Interactive editing of triangle meshes (hole filling, cutting, smoothing, decimating)
- Generation of intersections and features
- Calculation of optimized serial intersections and extraction or manipulation of feature lines

FUNCTIONS TO ENSURE SENSOR ACCURACY:

- Wide range of service functions for hardware diagnosis and control of sensor accuracy and sensor calibration
- Fast, simple and highly accurate sensor calibration on-the-spot by the user

EXTRAS:

- Complete range of functions can be automated using macros (VB scripts)
- COM interface for integration into automated measuring solutions
- Fully integrated photogrammetry module *
- Automatic data acquisition using optional rotary table (data acquisition and control of hardware)

* function only available in
COMETplus Reference
module