

3.9

- New** Visualization of planarity by configurable topographic maps (Analyst)
- New** Cut-off Plane dialog: A plane at definable distance, parallel to the Reference Plane, separates the model, providing the face area in front of and behind the cut-off plane (Analyst)
- New** Annotation: Volume, with a polygonal line outlining the border of a volumetric body (Analyst)
- New** Missing units in structure list added (Analyst)
- New** Supports import data from ShapeMetriX Mapper, a mapping tool for tablet PCs used in front of the face (Analyst)
- New** Fusion of Normalizer mode and North Correction mode (Normalizer)
- New** Two Range Poles mode: Using two non-parallel range poles with known target distance to scale, vertically orient, and north-correct the 3D image (Normalizer)
- New** User-defined Reference Plane (SurfaceTrimmer)
- New** Automatic camera selection still works even if EXIF data is compromised by third-party programs
- New** Calibration is selectable if no EXIF information is found at all (RecAssistant)
- New** Support for Windows 10
- New** Extension of capability by three additional 3D images in ShapeMetriX ModelMerger
- Enhanced** Speed-up in drawing analysis zones (Analyst)
- Enhanced** Refactored User Interface (SurfaceTrimmer)
- Enhanced** Trim operations are now applicable locally or globally depending on user settings (SurfaceTrimmer)
- Enhanced** New function to remove a whole 3D sub-image (SurfaceTrimmer)
- Enhanced** Speed-up of data save process (SurfaceTrimmer)
- Note** Extension of capability may require a 64-bit version of software and operating system

3.8

- New** Support for Windows 8, both 32-bit and 64-bit
- New** Support for Russian language
- New** Analysis Zone: New annotation for selecting multiple measurements (Analyst)
- New** Exclusion Zone: New annotation for masking zones (Analyst)
- New** Fully refactored analysis interface for Multiple Scanline Spacing (Analyst)
- New** New data export format (Analyst)
- New** Refactored report generation (Analyst)
- New** User-definable elevation range for contour lines (Analyst)
- New** User-definable, new algorithmic simplification of contour lines (Analyst)
- Enhanced** Spacing Analysis for Analysis Zones and entire StructureMap (Analyst)
- Enhanced** Spacing, trace length, and bridge length statistics for Analysis Zones and entire StructureMap (Analyst)
- Enhanced** Configurable statistics calculation considering areas, traces, bridges, and exclusion zones
- Enhanced** Visualization of the projection plane (Analyst)
- Enhanced** User-defined orientation of the projection plane (Analyst)

3.7

- New** Automatic selection of camera and lens after selecting the photos for cameras launched after 2006 (ReconstructionAssistant)
- New** Orientation data export compatible with the software Sphaira (Analyst)
- New** User-defined denomination of control points (Referencer)
- Enhanced** Introduction of orientation weights, considering structure sizes when calculating joint set orientations (Analyst)

- Enhanced** Extension of automatic clustering to account for weighted orientations (Analyst)
- Enhanced** New mechanism for filtering structures according to their sizes (Analyst)
- Enhanced** Scanline mechanism (Analyst)
- Enhanced** Automatic Region Grow mechanism (Analyst)
- Enhanced** Possibility to transform existing structure maps onto 3D images in a new coordinate system (Analyst)

3.6

- New** 64-bit support, allowing massively more measurement points per 3D image
- New** Ability to connect more images to a single large 3D image
- New** Display filters to show/hide structures based on user-defined settings (Analyst)
- New** OBJ export, including texture (Analyst)
- New** Additional denomination for surveyed control points, including import (Referencer)
- New** Later geo-referencing of 3D images and structure maps (Referencer)
- New** Support of CSV format for imported coordinates (Referencer)
- New** Additional warning at small base lengths (ReconstructionAssistant)
- New** Additional warning for incorrect lens settings (ReconstructionAssistant)
- New** Compatibility with merged 3D images (Normalizer)
- Enhanced** Memory management, minimizing memory requirements for displaying very large 3D images
- Enhanced** 3D surface triangulation
- Enhanced** Reviewed VRML export without restrictions on the number of points (Analyst)
- Enhanced** Graphical display of 3D image annotations (Analyst)
- Enhanced** Handling of merged 3D images (SurfaceTrimmer)
- Enhanced** Statistics on merged 3D images (SurfaceTrimmer)

3.5

- New** System configurations: Standard, Tunnel, and Versatile
- New** Compatibility with Windows 7
- New** Automatic identification of tie points in 3D image generation
- New** User-definable seams for image merging
- New** Special support for merging 3D images from underground operations
- New** Minimal user interaction for merged 3D images from surface applications
- New** Simultaneous loading of several 3D images
- New** Configurable general section plot in 3D image assessment
- New** VRML export
- Enhanced** String refactoring of the ShapeMetriX ModelMerger component
- Enhanced** Handling of extreme geometries in 3D image generation

3.0

- New** Introduction of automatic clustering of discontinuities for 3D image assessment
- New** Marker for water occurrence in 3D image assessment
- New** Matching strategy for “fast” reconstruction, leading to denser models at the same computing time (MultiPhoto)
- New** New! Live display during coarse model generation, showing real-time camera locations in a live 3D view while adding new cameras (MultiPhoto)
- New** Custom set of loaded images can be selected/deselected for the reconstruction process (MultiPhoto)
- New** Changing the project name also changes the 3D model name accordingly (MultiPhoto)
- New** Region of interest supports straight lines as well as arbitrary shapes (MultiPhoto)
- New** Several new cameras added to the camera database (MultiPhoto)

- Enhanced** Higher quality of 3D models in terms of surface point localization and data coverage (MultiPhoto)
- Enhanced** Faster computation (MultiPhoto)
- Enhanced** Support for standard machines without special graphics hardware; still recommend NVidia© graphics cards for faster computation (MultiPhoto)
- Enhanced** “Normal” density matching delivers much more points at the same computation time (MultiPhoto)
- Enhanced** More information on loaded image data, such as camera type or GPS information (MultiPhoto)
- Enhanced** Automatic support of GPS information if available (MultiPhoto)
- Enhanced** Surface meshing to avoid accidentally formed micro gaps in the surface mesh under certain circumstances (MultiPhoto)
- Enhanced** Refactoring of internal algorithms, leading to improved reconstruction accuracy
- Enhanced** Extension of multiple CPU usage for faster 3D image generation
- Enhanced** Toggle between single 3D images within merged 3D models
- Enhanced** Automatic discontinuity segmentation
- Enhanced** Change of units