4.9.5

New   Direct connection of mapped structural data from the Analyst software available for analysis and studies in Dips

4.9

New   Comprehensive redesign of the user interface for each processing step (MultiPhoto)

New   Verification of input data – image information is checked for inconsistencies in the GPS measurements during loading (MultiPhoto)

New   Integrated user interaction enables the removal of GPS information from single images for improved handling of inconsistent GPS measurements (MultiPhoto)

New   Simplified selection of the user selectable geographical coordinate system (MultiPhoto)

New   Extended GeoTiff export that supports all EPSG coordinate systems (MultiPhoto)

New   Trimming along a user-adjustable Reference Plane (SurfaceTrimmer)

New   User selectable coloring of sections (Analyst)

Enhanced   Extended CSV export of tape measurements providing the full profile in 3D (Analyst)

Enhanced   Usability and performance

Enhanced   Tool tips (MultiPhoto)

4.8

New   User-configurable distribution plot of trace mapping and corresponding spacing parameters (Analyst)

New   Extended contour line plot including vertical projections and projection to a user-configurable projection plane (Analyst)

New   Redesigned user interface of the contour line plot that improves user experience and usability (Analyst)

New   OBJ export supporting data exchange with Rocscience software (Analyst)

New   Extended DXF export of the geologic mapping including sections, profiles, tape measurements, occurrences, and area portioning (Analyst)

New   User-configurable distribution plot of trace mapping and corresponding spacing parameters (Inspector)

New   Contour line plot including the full set of new features (Inspector)

Enhanced   Usability and performance

Enhanced   Data processing and user interaction

Enhanced   Improvements for using multiple displays and high-resolution displays

Enhanced   CSV export functions for geological mapping data (Analyst)

4.7

New   3D navigation features using arrow key for a continuous zoom in the viewer

New   Checkboxes for the visibility of 3D models in the viewer available in all software components

New   Semi-automatic mode Guided Trace for annotating joint traces by defining the start and endpoint on the 3D model with the computer mouse (Analyst)

New   CSV 4D import of IDS GeoRadar data with color-coded visualization of displacement directly on the 3D model (Analyst)

New   Export of discontinuities in ".dxf" format as polygon or mesh (Analyst)

New   Feature for automatically adding discontinuity models to mapped areas and traces (Analyst)

New   CSV 4D import and color-coded visualization of displacement data achieved from radar system IDS GeoRadar (Inspector)

Enhanced   User interaction and performance

4.6

New   User interfaces have been redesigned to improve user experience and usability

New   3D viewer with improved performance, allowing display of large 3D models from drone imagery at a higher level of detail without compromising performance and user interaction

New   3D navigation features to rotate the 3D model from the current point of view and orient the 3D model from the camera view top down

New Clear arrangement of manuals in the Center Window – divided into general guidelines, field procedures, etc., and individual software components

Enhanced User interaction and performance in various components

4.5

New Completely new software installer with advanced setup settings, including the option for silent installation using the command line

New Re-organized dialog for general software settings

Enhanced HTML manuals with paragraph numbering

Enhanced CSV import functions with a new import dialog available in Referencer and Normalizer

Enhanced Re-design and re-organization of numerous dialog boxes for a more streamlined and efficient user experience

4.4

New HTML and PDF version of UAV field procedures available directly in the software via the central window

New PDF print for Sections and Profiles (Analyst)

New Pie chart plot for Lithologic Regions and Homogeneous Areas (Analyst)

New Feature "Area Basic" (Analyst)

New Calculation of an area related to a user-adjustable Reference Plane (Analyst)

New Display of the reconstruction quality of 3D models generated by MultiPhoto v4.0 (Analyst)

New HTML Help for JMX Inspector (Analyst)

New Visualization of the Reference Plane in the 3D viewer (Analyst)

New User-configurable display of Trace Maps Analysis, including a zoom function and options to show or hide spacing and intersection marks (Analyst)

New Display of spacing parameters in the Trace Maps Analysis diagram (tool tip) (Analyst)

New OBJ export: possibility to reduce texture size (Analyst)

New   Projection of the 3D model in common, user selectable geographical coordinate systems (MultiPhoto)

New   Image selection for 3D model processing directly in a 3D viewer with convenient handling using the computer mouse (MultiPhoto)

New   Update and extension of the camera database for new available drones (MultiPhoto)

New   "Behind the scenes" improvements in the coarse 3D model reconstruction (MultiPhoto)

New   User-configurable distribution plot of trace mapping and corresponding spacing parameters (Analyst)

New   Extended contour line plot including vertical projections and projection to a user-configurable projection plane (Analyst)

New   Redesigned user interface of the contour line plot that improves user experience and usability (Analyst)

New   OBJ export supporting data exchange with Rocscience software (Analyst)

New   Extended DXF export of the geologic mapping including sections, profiles, tape measurements, occurrences, and area portioning (Analyst)

New   User-configurable distribution plot of trace mapping and corresponding spacing parameters (Inspector)

New   Contour line plot including the full set of new features (Inspector)

Enhanced   Improvements for using multiple displays and high-resolution displays

Enhanced   CSV export functions for geological mapping data (Analyst)

Enhanced   Profile properties, including vertical and horizontal distance (Analyst)

Enhanced   Processing for monitoring of rock masses – a specified region of interest can be saved and imported after the coarse reconstruction (MultiPhoto)

Enhanced   Handling for image selection during referencing with extended keyboard and mouse selection (MultiPhoto)

4.3

New   Support for dongle through remote network connection for demo versions

New   New HTML help

New   3D navigation features using arrow key for continuous zoom in the viewer

New	Support for additional units of length, mass, and density, including distinctions between short ton and long ton, as well as International foot and US survey foot
New	Checkbox visibility for 3D models in the viewer available in all software components
New	Invert selection feature (SurfaceTrimmer)
New	Redesigned user interface with several usability improvements (Analyst)
New	New annotations: Occurrences, Homogeneous Areas, Lithologic Regions (Analyst)
New	Introduction of Mapping Definitions for customizable Lithological Regions (Analyst)
New	New types for Roughness and Fracture Mode properties (Analyst)
New	New properties for Water annotation (Analyst)
New	Support for custom notes for all annotations (Analyst)
New	Multiple element selection available across 3D Viewer, TreeView, and StereoNet (Analyst)
New	New annotations compatible with the Mapper tablet application (Analyst)
New	Semi-automatic mode Guided Trace for annotating joint traces by defining start and endpoint on the 3D model (Analyst)
New	CSV 4D import of IDS GeoRadar data with color-coded visualization of displacement directly on the 3D model (Analyst)
New	Export of discontinuities in ".dxf" format as polygon or mesh (Analyst)
New	Feature for automatically adding discontinuity models to mapped areas and traces (Analyst)
New	CSV 4D import and color-coded visualization of displacement data from radar system IDS GeoRadar (Inspector)
New	Generation of a 3D model with reduced data density (coarse 3D model) (MultiPhoto)
New	Export of the coarse 3D model as ".obj" (MultiPhoto)
New	Additional mode Underground to estimate volumes by generating a "watertight" mesh (VolumeCalculator)
Enhanced	Option to skip license installation during initial installation of a package
Enhanced	Import/export of Mapping Definitions
Enhanced	Extended options for defining a Reference Plane (SurfaceTrimmer)

Enhanced Behavior for Spacing Scanline, Analysis Zone, Exclusion Zone (Analyst)

Enhanced Several performance improvements in conjunction with large 3D models (Analyst)

Enhanced Confining the reconstruction area to a region of interest by providing the coarse 3D model in the viewer (MultiPhoto)

Enhanced Configurable ".obj" export (point density, export of coordinates) (MultiPhoto)

Enhanced Error analysis and warnings (VolumeCalculator)

4.2

New Dark theme mode available for all software components

New Redesigned UI to improve the UX user experience and usability

New 3D viewer with improved performance, allowing for displaying large 3D models from drone imagery at a higher level of detail without compromising performance or user interaction

New 3D navigation features to rotate the 3D model from the current point of view and orient the model from the camera view top down

New 3D navigation feature using arrow keys for straight motion and Ctrl+Arrow keys for rotation

New User-definable background color for the 3D viewer

New Features for enabling mouse navigation in the stereo view

New Clear arrangement of manuals in the Center Window, divided into General (guidelines, field procedure, etc.) and Components (individual software components)

New Redesigned user interface with usability improvements (SurfaceTrimmer)

New CSV export of Lithologic Regions (Analyst)

New CSV export of Homogeneous Areas (Analyst)

New PDF report (Inspector)

New Setting of the unit in the Volume Viewer, with available units including mm³, m³, in³, and yd³ (VolumeViewer)

Enhanced Command line installation

Enhanced Performance of the 3D viewer for large 3D models, allowing faster data loading and increased user productivity

Enhanced Clear arrangement of manuals in the Center Window, providing better access to guidelines and procedures

Enhanced Keyboard and mouse functions for editing the volume (VolumeCalculator)

4.1

New Support for 64-bit applications only

New A dongle update is required for most users before installing ShapeMetriX 4.1 to apply all new functions

New Option to set the displayed texture resolution for the 3D viewer

New 'Clean up' button for removing temporary data, applicable only if 3GSM cache directories are found

New Tool tips providing information about annotations in the 3D viewer by moving the mouse over the annotation while holding the Ctrl key (Analyst)

New Customizable screenshot functionality, including orthophotos with scale information (Analyst)

New Plots can be saved as ".png" files (Analyst)

New Software installer now includes the possibility of silent installation using the command line with appropriate setup settings

New Digital signature for verifying the authenticity of the software

New Re-organized dialog for the general software settings

New PDF versions of the manuals available directly in the software

New Referencing Single Point Mode for transferring the 3D model to a user-defined coordinate by a single externally surveyed point (MultiPhoto)

New Referencing Sample Mode for scaling the 3D model in a local coordinate system, especially suitable for underground environments (MultiPhoto)

New CSV import of Ground Control Points in latitude, longitude, and altitude (MultiPhoto)

New OBJ and Geo-Tiff export of the 3D model (MultiPhoto)

New Automatically generated report (VolumeCalculator)

New CSV export of volumes (VolumeCalculator)

New Mass calculation by editable density (VolumeCalculator)

Enhanced	CSV import functions available in the Referencer and Normalizer, featuring a new import dialog
Enhanced	HTML manuals with paragraph numbering
Enhanced	Drastic improvement of 3D mesh generation
Enhanced	Handling of operations requiring administrator privileges, such as license or calibration data
Enhanced	Multiple calibration files can be installed and removed at once
Enhanced	Diagrams now display the set unit for axes (Analyst)
Enhanced	Option for enabling/disabling the same scale for both axes in sections charts (Analyst)
Enhanced	Calculated volumes can be renamed (Analyst)
Enhanced	More feedback during trimming (SurfaceTrimmer)
Enhanced	Reference points are saved in the correct subimage and are shown again after loading (Normalizer)
Enhanced	Reference points from previous versions are no longer imported (Normalizer)
Enhanced	Error analysis and warnings (MultiPhoto)
Enhanced	Behind-the-scenes improvements in the 3D model generation (MultiPhoto)

4.0

New	Complete new referencing mechanism for 3D models, including enhanced possibilities and instant quality feedback, replacing the Referencer component (MultiPhoto)
New	GCP constrained optimizations and referencing of 3D models (MultiPhoto)
New	New! Import of GPS coordinates from an ASCII TXT file (MultiPhoto)
New	Automatic generation of a quality report for the reconstruction in PDF format (MultiPhoto)
New	Automatic generation of ortho-photos in PNG format (MultiPhoto)
New	Support of the BAAM Tech™ PPK drone equipment (MultiPhoto)
New	Backward compatibility of 3D models with the new feature "Export 3D model as jm3 v3.0" (SurfaceTrimmer)

New	Feature enhancement in Heap Mode, now called "One Model," with automatic positioning of bounding planes for individual heap volumes (VolumeCalculator)
New	Boundary planes are user-adjustable (VolumeCalculator)
New	PDF print for Sections and Profiles (Analyst)
New	Pie chart plot for Lithologic Regions and Homogeneous Areas (Analyst)
New	Feature "Area Basic" for calculating areas related to a user-adjustable Reference Plane (Analyst)
New	Display of reconstruction quality of 3D models generated by MultiPhoto v4.0 (Analyst)
New	HTML Help for Inspector (Analyst)
New	Visualization of the Reference Plane in the 3D viewer (Analyst)
New	User-configurable display of Trace Maps Analysis, including zoom function and options to show/hide spacing and intersection marks (Analyst)
New	Display of spacing parameters in the Trace Maps Analysis diagram as a tooltip (Analyst)
New	OBJ export feature with the possibility to reduce texture size (Analyst)
Enhanced	Error analysis and warnings (MultiPhoto)
Enhanced	Behind-the-scenes improvements in the 3D model generation (MultiPhoto)