BlastMetriX

RELEASE NOTES V3

3GSM

3gsm.at

3.10

New Extension of capability by three additional 3D images in ModelMerger

New User-definable face area added, allowing users to manually define the main face area, which is important for uneven faces such as corners and curved surfaces (BlastPlanner)

New Toggling of dimension plots in the 2D view enables dimensions in the plan view to be turned on or off individually, in groups, by rows, or by drill pattern via a new icon in the borehole list under the Drill Pattern tab (BlastPlanner)

New User-definable muck lines for highlighting muck, enabling users to manually define the border between the bench face and muck pile, which is considered for calculating volumes and burden information & profiles (BlastPlanner)

New User-specific CSV export of boreholes by collar and toe (BlastPlanner)

New Bug fix in report: large tables over one page no longer loses a line (BlastPlanner)

New “Entitle Blastsite” no longer causes problems with imported surveyed boreholes (BlastPlanner)

New LOD (level of detail) meshes are now generated before saving the .jm3 file, speeding up later handling of 3D images, especially for many merges (BlastSiteGenerator)

New Support of the face area and muck lines (BlastSiteGenerator)

Enhanced Import functionality of borehole probes now supporting the new Renishaw header and optional date tag (BlastPlanner)

3.9

New Support for the Russian language

New Zooming and panning of the 2D plan view to improve visibility for vast blast sites (BlastPlanner)

Enhanced Overall performance

Enhanced Import of file formats for Boretrak probes (BlastPlanner)

3.8

- **New** New widget for accessing drill patterns, general geometry of the blast site, and volume (BlastPlanner)
- **New** Introduction of logical rows for managing larger blast sites (BlastPlanner)
- **New** Refactoring of menu and toolbar (BlastPlanner)
- **New** Values in the general table are now directly editable (BlastPlanner)
- **New** Refactoring of minimum real burden and profile plot (BlastPlanner)
- **New** New color scheme for collar points, top level surface points, and imported GPS points (BlastPlanner)
- **New** On selection of a particular point, switches to the corresponding sub-image (BlastSiteGenerator)
- **New** New color scheme for collar points and top level surface points (BlastSiteGenerator)
- **New** Geo-referenced 3D images no longer need any range pole (BlastSiteGenerator)
- **New** Refactored dialog for generating and saving blast sites (BlastSiteGenerator)

3.7

- **New** Undo/Redo mechanism for the management of control points
- **New** Adjustable density of 3D measurement points
- **New** New top level surface element: Collar point (BlastSiteGenerator)
- **New** Revamped confirmation window (BlastSiteGenerator)
- **New** Later transformation of blast sites into a geo-referenced coordinate frame (BlastPlanner)
- **New** Supplemental information within 2D profile plots (BlastPlanner)
- **New** Export to ShotPlus 5 Premier (BlastPlanner)
- **New** Support of surveyed collar points (BlastPlanner)
- **New** De- and reactivation of markers and/or imported data in the top-level surface (BlastPlanner)
- **New** Offset values in feet when importing Boretrak data (BlastPlanner)

New Amendments for the interactive import of Pulsar data (BlastPlanner)

New Support of top-level surface markers now in feet (BlastPlanner)

Enhanced Improved memory management, reducing memory requirements for displaying very large 3D images

Enhanced 3D surface triangulation

3.6

New System can survey uneven crests without needing any additional instruments such as GPS

New New marker element: top level surface marker

New Introduction of top-level surface points for defining an irregular top-level surface (BlastSiteGenerator)

New Support of top-level surface markers, allowing for add, delete, and edit functions (BlastSiteGenerator)

New Modeling of irregular top level surfaces using image measurements (BlastSiteGenerator)

New Visualization of irregular top-level surfaces in 3D (BlastPlanner)

New Editing of top-level surfaces in 3D (BlastPlanner)

New Import of surveyed top level surface points, such as borehole collars measured by GPS (BlastPlanner)

New Adjustment of irregular top-level surfaces to a drilled borehole pattern (BlastPlanner)

New Printed PDF report (BlastPlanner)

Enhanced Minor bug fixes (SurfaceTrimmer)

Enhanced Improvements in profile and minimum burden views accounting for irregular top-level surfaces (BlastPlanner)

3.5

New System supports the combination of several photos into a single 3D model, making it easier to survey long bench faces or corners

New Compatibility with Windows 7

New New system configurations: Express and Suprem

New Support of merged 3D images (BlastSiteGenerator, BlastPlanner)

New Redesigned graphical user interface with dock views that enables free configuration and allows for a simultaneous display of profiles, minimum burden diagrams, and plan view/3D image in a clear layout (BlastPlanner)

New Interactive import of down-the-hole probe data without GPS need (BlastPlanner)

New New visualization options (SurfaceTrimmer)

New Easy switching between 3D sub-images (SurfaceTrimmer)

3.0

New Internal refactoring of 3D image generation routines

New Refactored image processing leading to even increased reconstruction accuracies

New Choosable unit system, with options for meters, feet, and inches

New Live switchover between reduced and full set of 3D points

New Bounding box including overall dimensions

New Boretrak data import

New Higher quality of 3D models in terms of surface point localization and coverage of data (MultiPhoto)

New New matching strategy for “fast” reconstruction leading to denser models at the same computing time (MultiPhoto)

New “Normal” density matching delivers many more points at the same computation time (MultiPhoto)

New More information on loaded image data such as camera type or GPS information (MultiPhoto)

New Automatic support of GPS information if available (MultiPhoto)

New New live display during coarse model generation showing the found camera locations in a live 3D view while adding new cameras (MultiPhoto)

New A custom set of loaded images can be selected/deselected for the reconstruction process (MultiPhoto)

New Changing the project name also changes the name of the 3D model 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 Feedback on reconstruction quality

Enhanced GPS data support, e.g., for borehole collars

Enhanced Increased support of multi-core processors

Enhanced Increased flexibility of planning the blast site

Enhanced Improvement of surface meshing to avoid accidentally formed micro gaps in the surface mesh that have been present under some circumstances (MultiPhoto)

Enhanced Faster computation (MultiPhoto)

Enhanced Support of standard machines without special graphics hardware; NVidia© graphics cards are still recommended for faster computation (MultiPhoto)

Enhanced The combination of aerial and terrestrial 3D images better detects redundant points (BlastSiteGenerator)