



# LiDAR Solutions for Mining

**SOKKIA**



1. 3D LiDAR scanner for tunnels, shafts, underground & open pit mine
2. Stock pile & cubature calculation
3. Used in stone quarries, gravel pits, mixing plants, macadam plants, recycling centres & other quarries
4. Cavity monitoring

**Features:**

- Volumetric calculation
- Rock overbreak & underbreak calculation
- Tunnel surface calculation
- Shortcrete thickness
- Temporal measurements
- Stock pile analysis
- Change detection
- Cut & fill volume
- Slope stability
- Regulatory compliance
- Loss Prevention
- Pit Topography for design
- 3D geological modeling
- Resource estimation
- Accurate 3D stockpile
- Pre/Post blast analysis
- Highwall, slope and spoilbank stability
- Detect toes and crests to update models
- CAD features for drafting and plotting
- Wireframes, triangulated, gridded surfaces

**Export:**

Line work, 3D model, polylines, features, assets, street furniture, planes, edges, cross-sections, mesh, features, angles, lengths, heights, volume, vectors, annotation, colour 3D point cloud, break lines, ground, non-ground, surface grid, hill-shades, draped imagery, contours, intensity, texture, layers, DTM, classified points, assets, dimensions, line of sight, fly through, projection, etc.

**Export Format:**

DXF, DWG, BMP, GIF, JPEG, PNG, TIFF, CL3, CLR, PTX, CLD, IJ, LAS, OBJ, WRL, X3D, CLT, TRG, PTS, TXT, MSH, TN3, DGN, SHP, XML, PTC, ASCII, GeoTIFF, ESRI, USGS DEM, FLT, and other GIS & CAD formats.

**Compatibility:**

Minesight, Vulcan, Gemcom, Leaffrog, TPT, Rockware, AutoCAD, Microstation, ESRI, GIS, etc

