



MINEFLY3

AUTONOMOUS DRONE FOR UNDERGROUND MINES

EFFICIENT - SAFE - ACCURATE - SIMPLE - PRACTICAL - AFFORDABLE



Scans inaccessible and hard-to-access areas such as:

- › Stopes
- › Caved-in areas
- › Drifts
- › Other underground mine cavities

BENEFITS AND FEATURES

- › AI based next level flight autonomy
- › Designed for harsh environments
- › Robust and cost effective
- › Lightweight and easy to use
- › Capable of mobile and stationary 3D Laser Scanning
- › Scanner can be taken off of the drone and mounted on post, tripod, ground vehicle, or can be used as a handheld unit
- › High power LED lights
- › Scanner mountable on top or bottom of drone
- › Extensively tested in underground mines
- › 3D Visualization, localization and mapping uses SLAM algorithm for positioning and mapping
- › Available in 45 m and 120 m range with upto 128 laser lines
- › Flight time upto 30 minutes

INCREASES EFFICIENCY

- › Typical stope survey takes less than 15 minutes, including set-up time
- › Survey can be performed by one person

INCREASES SAFETY

- › Scan is performed from a safer distance (compared to traditional CMS)
- › Since the survey takes a few minutes, workers spend less time in hazardous areas
- › Active collision avoidance system

INCREASES ACCURACY

- › Eliminates shadowing effect in mine cavities
- › High point cloud density

PACKAGE INCLUDES

- › Drone
- › LiDAR
- › Flight Training
- › Propeller Guards
- › Mobile Scanning Pre-processing Software
- › Geo-Referencing Markers
- › Post-processing Software
- › Carrying Case
- › Accessories
- › Phone and Email Support
- › Optional Maintenance Plan

