



# 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

