



# VERSA3D

## VERSATILE 3D LASER SCANNING SYSTEM

EFFICIENT - SAFE - ACCURATE - SIMPLE - PRACTICAL - AFFORDABLE

### ONE SYSTEM FOR ALL SCANNING NEEDS

- Can be used as a standard CMS System
- Can be mounted on tripod, post, ground vehicle, and aerial drone

### TECHNICAL SPECS

- Capable of Stationary and Mobile Scanning
- Mountable on Tripods, Ground Vehicles & UAV
- Can be Mounted on Top or Bottom of MineFly Drone
- Can be Powered from Drone Battery
- Controllable from any Mobile Device
- Scanning Principle: Rotating Mirror & Scanner Head
- Scanning Capability: Stationary/Mobile (SLAM)
- Stationary Scanning Speed: 30 sec
- Range: 0.06 m up to 60 m
- Laser Class: 1, safe to the eye in accordance with IEC
- Laser Wavelength: 905 nm (invisible)
- Startup Time: Approx. 10 sec
- Field of View: 270 degree (360 degree with rotation)
- Angular Resolution: 0.25 deg
- Ambient Temperature & Humidity: -10 deg C to +50 deg C, 85% RH
- Storage Temperature & Humidity: -30 deg C to +70 deg C, 85% RH
- Vibration Resistance: 10 to 55 Hz
- Sensor Protection Structure: IP65
- Weight: ~ 930 g with Battery; ~640 g without Battery
- Material: Polycarbonate & Aluminum
- Dimensions: (10 x 14 x 13) cm

### BENEFITS AND FEATURES

- Maximum scanning range: 60 m
- Typical range for underground hard rock mines: 20 m
- Impact-, water-, and dust-resistant enclosure
- Single stationary scan takes 17 sec
- Captures up to 42,000 points/sec
- Weight < 1 kg with battery
- Capable of scanning for more than 3 hours in single battery charge
- Can be controlled by any mobile device, such as smartphone
- Capable of mobile and stationary scanning
- Designed for underground mines
- Robust and cost-effective
- Lightweight and easy to use
- Extensively tested in underground mines
- 3D visualization, localization and mapping
- Uses SLAM algorithm for positioning and mapping

### INCLUDES

- Battery
- Battery charger
- Geo-Referencing Markers
- Mobile Scan Pre-Processing Software
- Carrying Case
- Accessories
- Phone and Email Support
- Optional Maintenance Plan

