

## Topaz

Efficiently capture and localize information with your preferred sensors and vehicles while safely navigating complex, GPS-denied environments with the Topaz system.

### Potential GPS-denied environments include:

- ▶ Tank Farm      ▶ Mine
- ▶ Tunnel          ▶ Bridge
- ▶ Power           ▶ Warehouse
- ▶ Construction ▶ Greenhouse

### Benefits

#### Rapid

**No Delays:** Real-time data gathering, what you need to know, when you need it.

**Minimize Downtime:** Get immediate data without losing millions a day during shutdown.

#### Precise

**Go Where GPS Can't:** Use immediately in any complex or confined environment without GPS or added infrastructure.

**Use Your Sensors & Vehicle:** Collect data using camera, IR, thermal, gas, and almost any sensor or vehicle.

#### Safe

**Fly Safely:** Feel confident relying on the system's ability to find a safe path in complex environments. Detects obstacles as small as 5cm.

**Reduce Risk:** Access dangerous areas without scaffolding or PPE.

### Inspection Process Example – Autonomous Tank Farm Inspection to Safely Detect, Locate, and Track Issues.

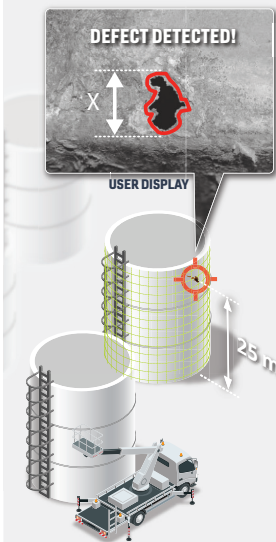
#### Plan flight (first time only)



#### Collect data safely & repeatably



#### Actionable analytics



#### Take informed action





## Topaz functionality options

- Mapping: Safely capture 3D point clouds, even in GPS-denied environments
- Localization: Track 3D position and orientation
- Obstacle avoidance: Safe manual and autonomous flight is possible when coupled with a drone

### Specifications:

#### Physical

Power: 19 v +/- 10 %; 100 W max

Weight: 1.4 kg (~3.1 lb)

Size: 16.5 x 12 x 13.97 cm (6.5 x 4.75 x 5.5 in)

### All options include:



*Detailed point cloud and data*



*Technical support*



*Inspection functionalities*

### Connect with us to discuss:



*Demonstration*



*Purchase*

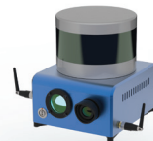
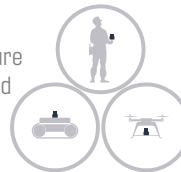


*Partnership*

## TOPAZ m

Stand Alone Mapping Unit. Ideal lightweight mapping solution.

Apply power and capture point cloud maps by hand or mobile robots.



## TOPAZ fs

Complete Autonomy & Mapping Flight System. Ideal for those seeking a turnkey end-to-end solution.

System includes a drone, sensor, ground control station (GCS), and a pilot controller.



## TOPAZ i

Mapping & Autonomy Integration. Ideal for those who want to integrate Topaz with their vehicle and sensors.

Bring our technology and your vehicle and sensors together.

