

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
- ▶ Tunnel
- ▶ Power
- ▶ Construction
- ▶ Mine
- ▶ Bridge
- ▶ Warehouse
- ▶ 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: Avoid accidents with the system's ability to find safe paths in complex environments.

Reduce Risk: Access dangerous areas without scaffolding or PPE.

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

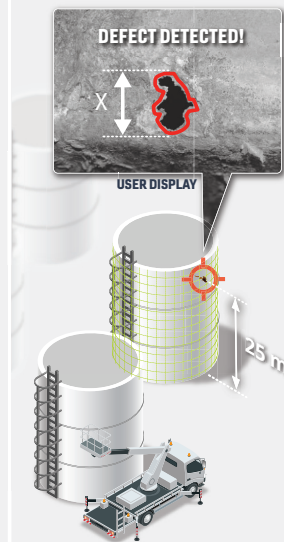
Plan flight (first time only)



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

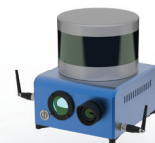
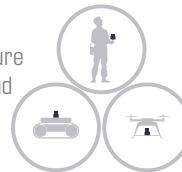


Partnership

TOPAZ m

Stand Alone Mapping Unit. Ideal lightweight mapping system.

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 system.

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.

