

UNI-INSPECTOR
by UNI
TECHNICS

Welcome to the future of inspection technology

Using the latest drone technology in sewer systems

November 2022

The perfect tool for sewer inspections

4K-Camera

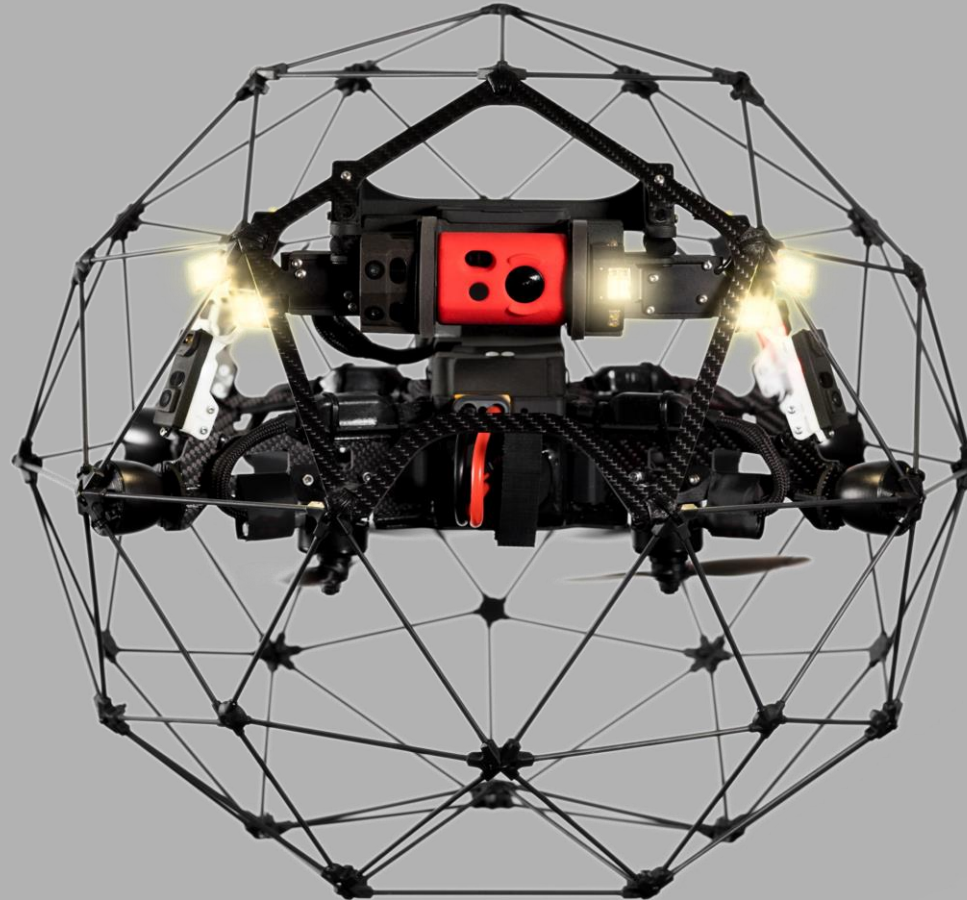
- Wide field of view
- Highest image quality in low light

Lighting

- Powerful 10k lumen
- dynamic light

Compact size

- < 400 mm sphere diameter



Post-processing 3D-Map

- Quick sparse point cloud processing
- Detailed photogrammetric models

Robust

- Carbon-Cage
- Extremely stable on wall contact

Long flight times

- Up to 10 min per battery



No human entry needed









From 800mm diameter



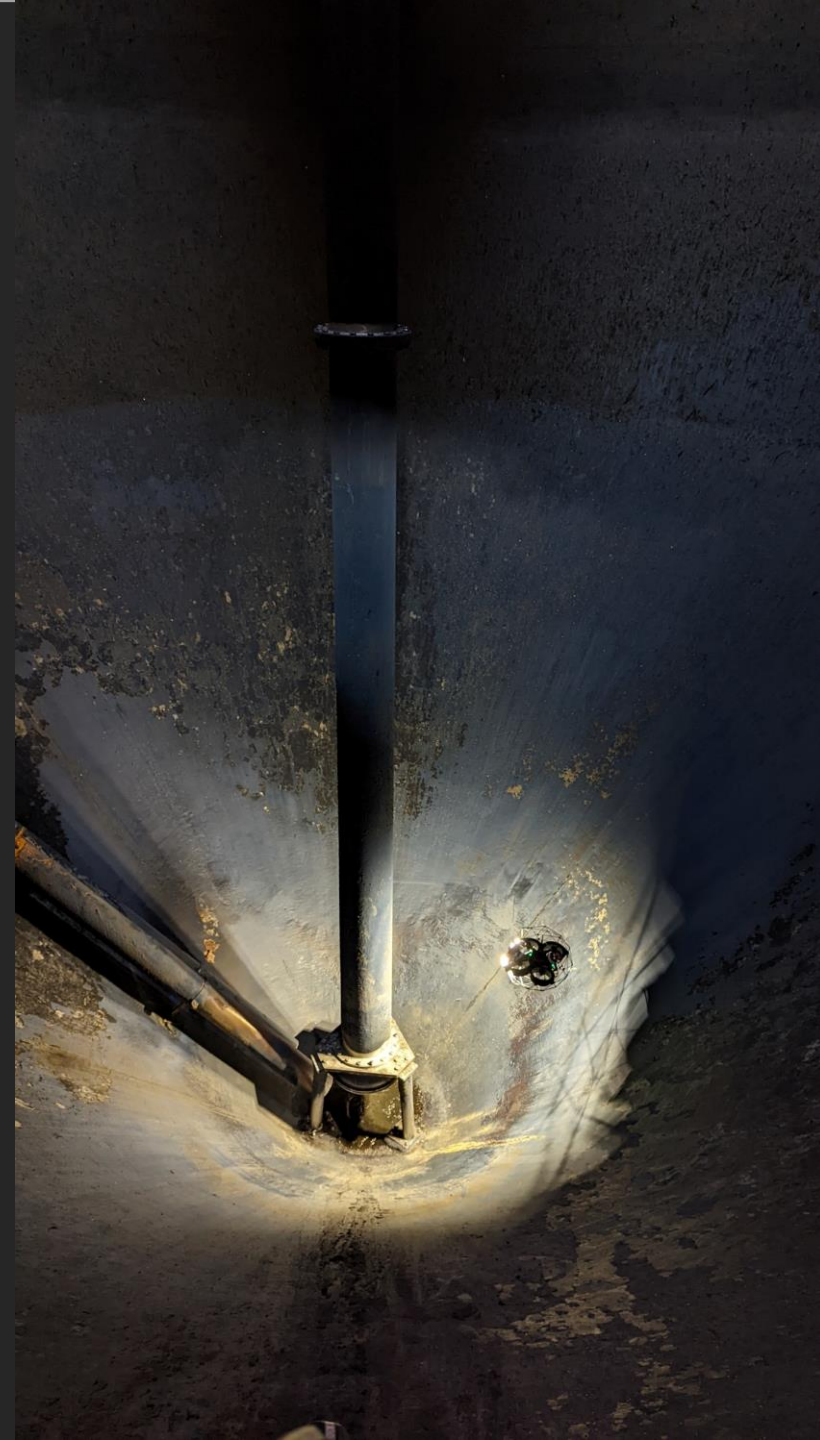




Inspect while in operation



No human entry needed





Risk-free access into dangerous environments



Find...



... and locate damages



Explore the unknown



Explore the unknown



The latest technology

ELIOS 3

4K-Camera

- Wide field of view
- Highest image quality in low light

Lighting

- Powerful 16k lumen
- Perfect coverage dynamic light

Modular

- Lidar scanner
- More modules to come



Live 3D-Map

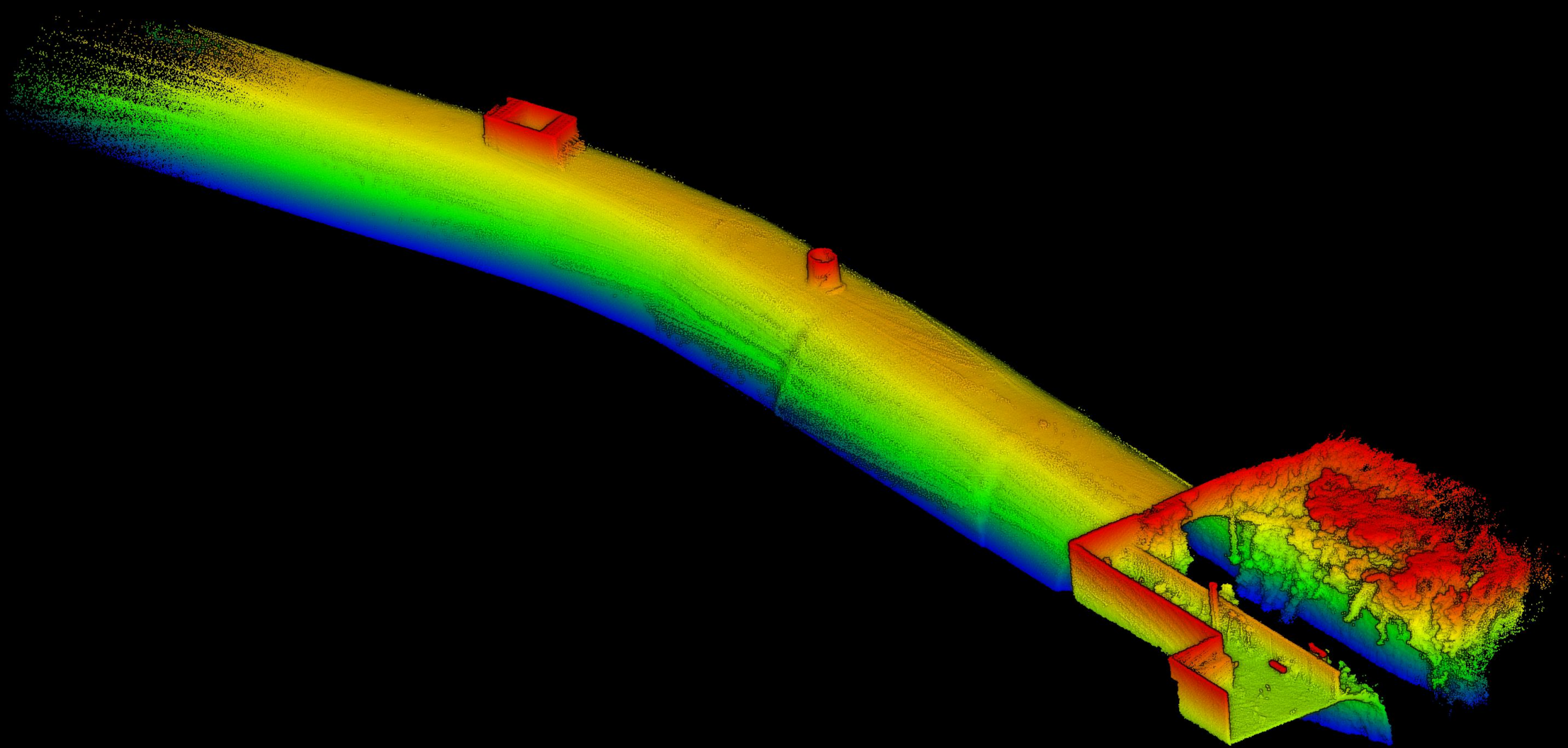
- In-flight localization

More robust

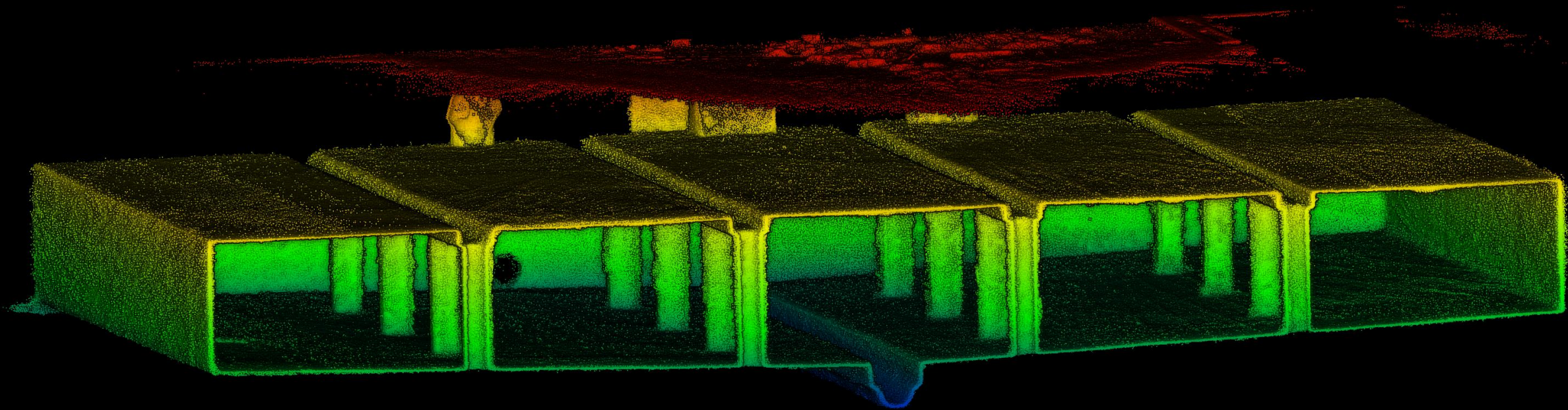
- Carbon-Cage
- IP44 protection
- Ducted propellers

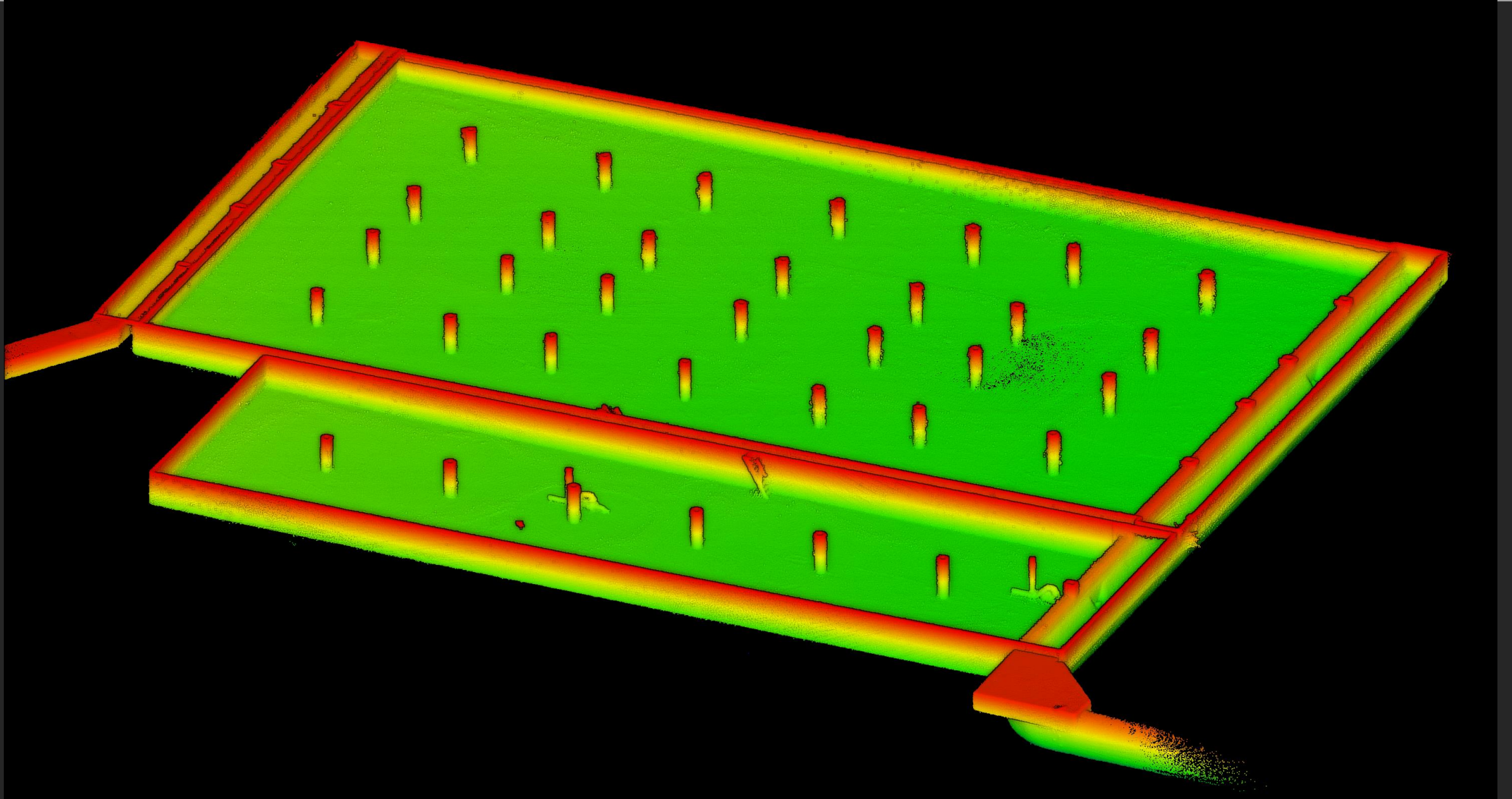
Longer flight times

- Up to 12 min per battery

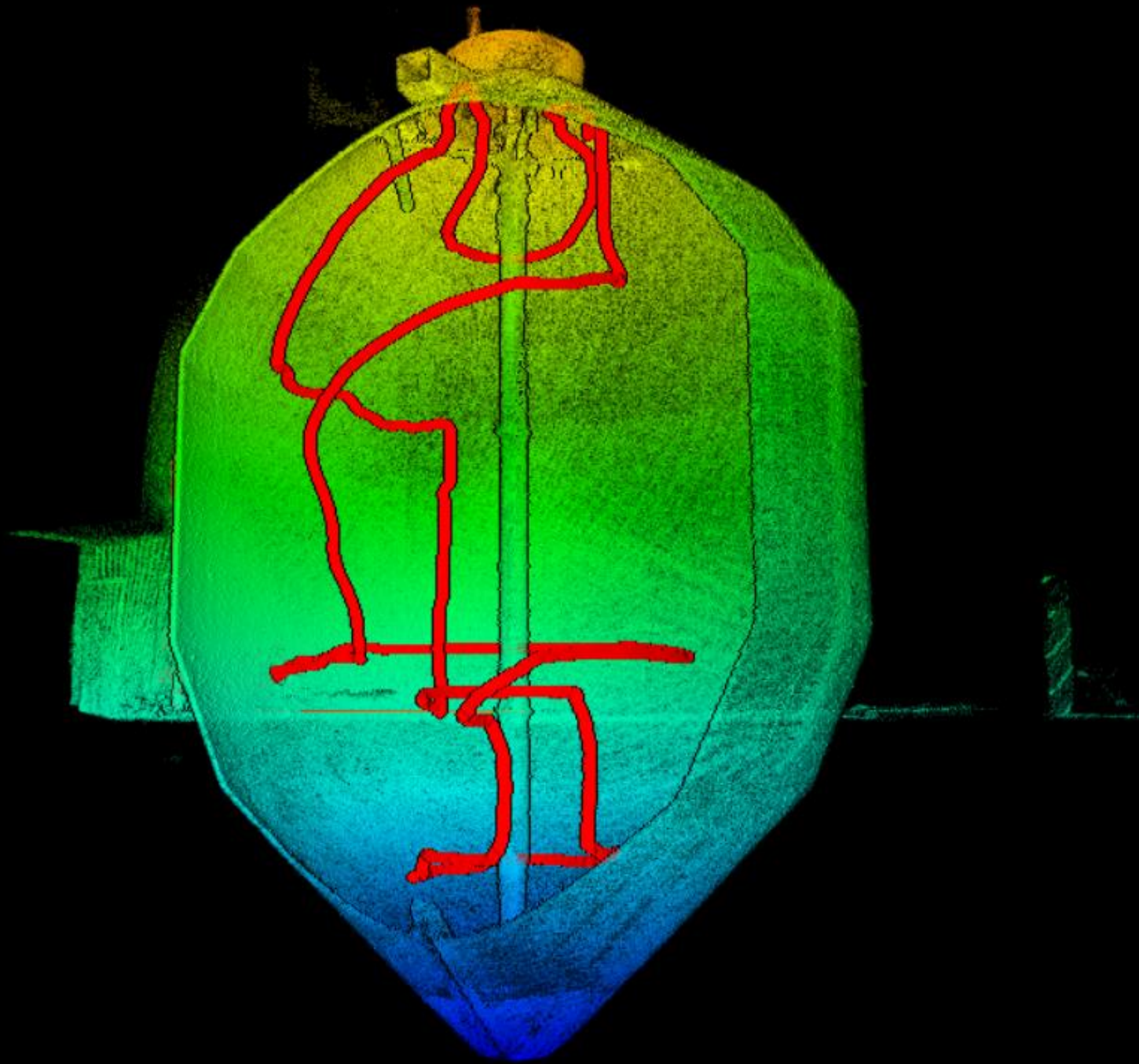


Survey-grade laserscanning

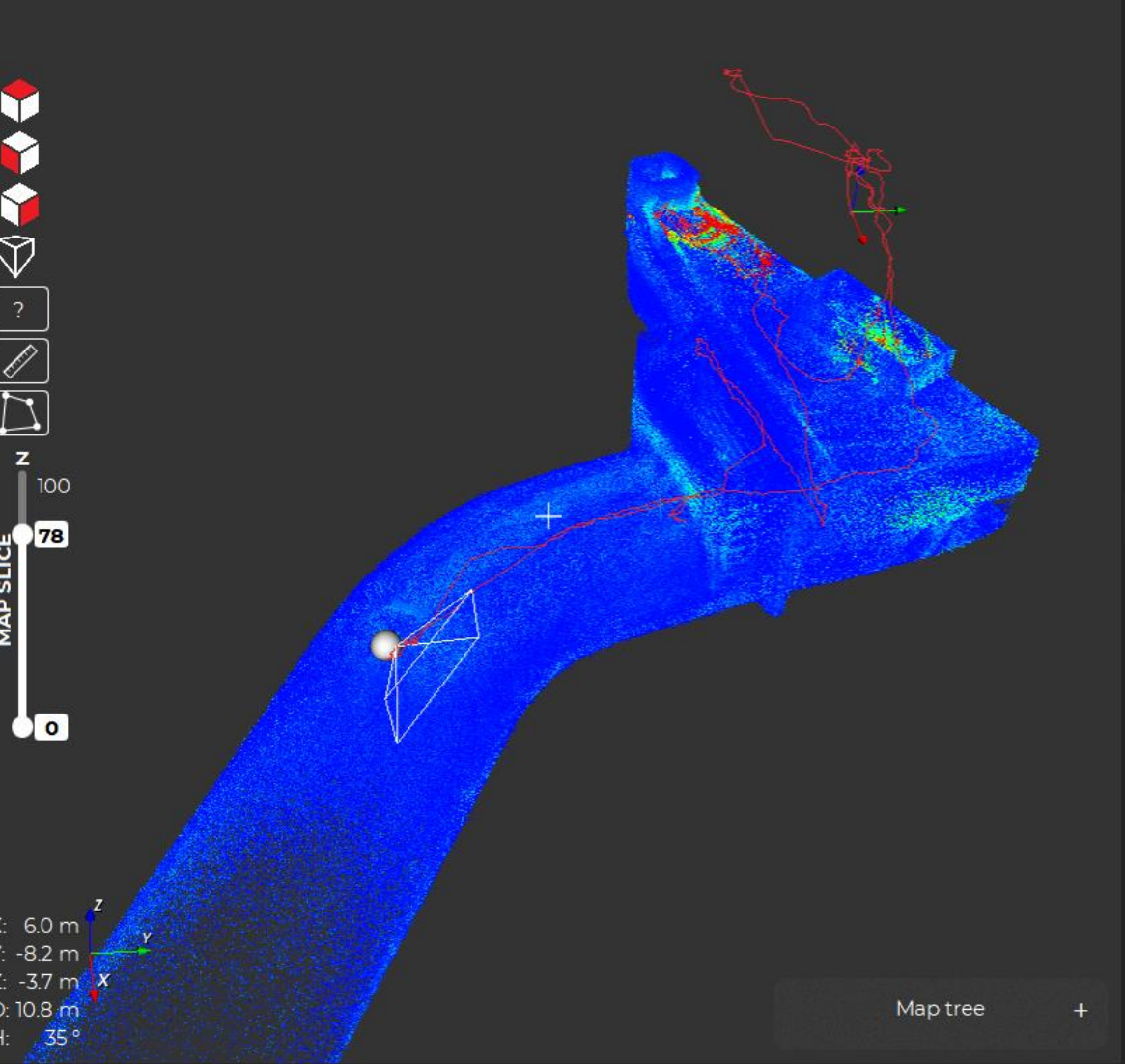




1200 m² in one 8-minute flight



Exact flight path
reconstruction



Map tree +

ANNOTATIONS INTEGRATION

Speed 1,00 x

00 01:00.000 02:00.000 03:00.000 04:00.000 05:00.000

POI-1 POI-3 POI-4 POI-6 POI-7 3

Align 3D-Model and video images



inspec
Drone

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