

DRONE INSPECTION



**DIGITAL
MEASUREMENT**



**COST
EFFICIENT**



**100%
SAFE**

DRONE INSPECTION

Tecson Inspections has a drone that is exclusively used for internal inspections in dangerous and inaccessible areas such as (storage) tanks, vessels and pipes. Because the drone is only used internally, there is no need to apply for a ROC(-light) permit at the Human Environment and Transport Inspectorate (HETI).

Also, it isn't necessary to submit a flight plan to Air Traffic Control the Netherlands (LVNL). Because only the applicable safety regulations and work permits of the customer must be taken into account, the preparation time is much shorter than with an external drone inspection.

BENEFITS

- 100% safe; physical entrance not necessary anymore
- In 100% toxic environment applicable
- Lower cost; no scaffolding, crane / rope access needed
- Time saving; reduce downtime of installation
- Inspect and explore the dangerous and inaccessible areas
- No external permits required



DRONE: ELIOS

ELIOS

The Elios is the first collision tolerant drone specially designed for the internal inspection of the most inaccessible places. The protective frame is made of carbon fiber with a soft coating that can absorb collisions with a speed of up to 4 m/s.

The Elios is equipped with a Full HD camera and a thermal camera on a swivel head. The built-in LED lighting system automatically adjusts the light beam to the angle of inclination.

The Elios is controlled through the Elios Ground Station which consists of a remote control, tablet and a ground control application. This station provides the pilot with a live SD video stream and the information and controls needed to operate the Elios efficiently and safely.

CAMERAS

	Full HD camera	Thermal camera
Resolution	1920x1080 at 30 fps	160x120 at 9 fps
Pan view	130°	56°
Tilt view	75°	42°
Total view	215°	108°

SPECIFICATIONS

Diameter	400 mm (16")
Take-off weight	700 gram
Climb speed	1.5 m/s (normal mode) 2.5 m/s (pro mode)
Flight speed	6.5 m/s (normal mode) 9 m/s (pro mode)
Motors	4 elektrik brushless motors
Battery	Lithium-Polymer battery; 2800 mAh, 33.08W
Range	Up to 500 meters in direct line of sight
Fly time	Up to 10 minutes (battery change < 1 minute)
Operating temp.	Between 0° and 50° C



MORE INFORMATION

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