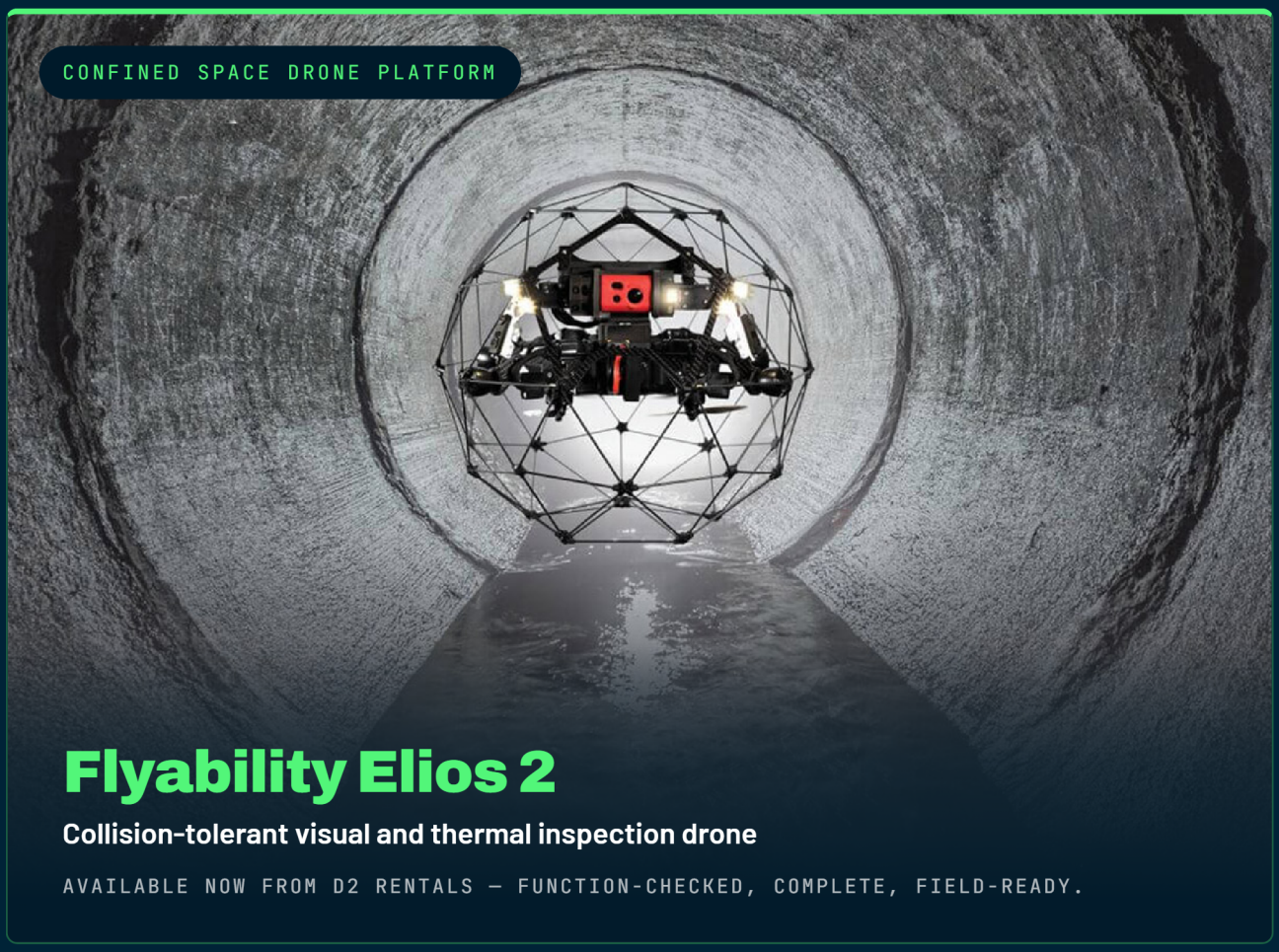
COLLISION-TOLERANT INDOOR DRONE

Flyability Elios 2 confined space inspection drone

The Flyability Elios 2 is a collision-tolerant drone purpose-built for visual and thermal inspection inside tanks, vessels, stacks, flues and other confined or GPS-denied spaces — capturing high-resolution data from places where conventional aircraft cannot fly and where personnel entry carries unacceptable risk.



CAPABILITIES & KEY FEATURES

Built for the places drones can't usually fly

The Elios 2 combines a collision-tolerant carbon-fibre cage, GPS-free stabilisation and a tilting 4K and thermal payload to deliver consistent, repeatable inspection data inside confined assets. Three feature sets define what the platform does in the field.

Collision-Tolerant Flight

A protective carbon-fibre sphere surrounds the airframe, allowing the drone to contact structure and continue the mission. The cage measures approximately 400 mm across — small enough to pass through a standard manhole. Pilots can prioritise data capture over collision avoidance, which is what makes thorough inspection of cramped interiors practical.

Vision in the Dark

A 10,000-lumen lighting array around the airframe delivers near-daylight illumination inside unlit assets. Dustproof lighting cuts through rotor-disturbed particulates; oblique lighting casts controlled shadow to surface fine cracks, weld toe defects and surface corrosion that flat lighting hides. The 180° tiltable pod inspects floor-to-ceiling from a single hover position.

Distance Lock & GPS-Free Stability

A multi-sensor inertial and visual stack holds the aircraft steady without GPS, essential inside tanks, tunnels and mine workings. Distance Lock maintains a constant stand-off (30–200 cm) from a chosen surface, giving consistent image scale and repeatable inspection geometry for trend analysis between hire periods.

- 4K visual camera, 12 MP stills, 0.18 mm/px resolution
- FLIR Lepton thermal sensor for hot/cold spot survey
- Full HD live downlink to operator console
- Cockpit 2 and Inspector 2 software — 2D measurement, Pix4D-ready output

SPECIFICATIONS & HIRE

Field-ready confined-space inspection.

KEY SPECIFICATIONS	
Protective cage dia.	~400 mm
Visual camera	4K · 12 MP stills · 0.18 mm/px
Thermal camera	FLIR Lepton · 160 × 120 · 9 fps
Lighting	10,000 lm · dustproof & oblique modes
Camera pod tilt	180°
Distance Lock range	30 – 200 cm
Stabilisation	GPS-free, multi-sensor inertial / visual
Live downlink	Full HD
Software included	Cockpit 2 · Inspector 2

Specifications quoted from Flyability manufacturer data. Operational performance is environment-dependent.

IMPORTANT — NOT ATEX-RATED

The Elios 2 is suitable for visual and thermal inspection inside non-classified confined spaces. Deployment in ATEX-classified zones requires separate hot-work permitting and site-specific risk assessment.

WHAT DO I NEED TO BOOK A RENTAL?

Provide us with some key documents — then enjoy your hire.

01

Insurance

Insure your rental under a Hired-in (non-owned) equipment cover policy — to the full cost value of the equipment and for the duration of your hire period.

02

Proof of ID

Submit a copy of your passport or driving licence, plus a utility, bank, or council tax statement that matches your name and delivery address.

03

Flyer ID

You need a valid Flyer ID and Operator ID for the operating organisation. RPC-L1 Part A or equivalent CAA-recognised competency is the minimum standard for commercial Open Category use.

READY WHEN YOU ARE

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