TOPCON

INTEL® FALCON™ 8+ DRONE – TOPCON EDITION
AERIAL IMAGING SOLUTION

Innovative design delivering top-quality data

- Configurable for inspection or mapping
- Use multiple sensors simultaneously
- Resistant to magnetic interference
- Operational in windy areas
- Low noise, emission-free operation

The Intel® Falcon™ 8+ Drone – Topcon Edition is a rotary-wing UAS designed for inspection and monitoring or survey and mapping applications, depending on which camera payloads are used.

Offering flexibility in tight spaces and challenging environments, the Intel Falcon 8+ Drone – Topcon Edition uses best-in-class sensors, active vibration damping and an actively compensating camera mount. The Intel Falcon 8+ Drone – Topcon Edition Inspection Package can be used for multiple types of inspection projects that require high-resolution imaging. The Mapping Package is well-suited for multi-hectare (multi-acre) projects.

Inspection Package

The Inspection Package payload consists of the Panasonic Lumix DMC-ZS50 for true color RGB images and the FLIR Tau 2 640 for infrared imaging.

With the Inspection Package, operators can perform close-up inspections to detect millimeter damage, fine hairline cracks, leaks or heat power losses. The hybrid RGB + 14-Bit RAW data inspection payload combines a near-infrared camera with a high-resolution digital camera mounted in parallel.

Mapping Package

The Mapping Package is an innovative solution for small mapping projects and volume calculations. High-resolution geo-referenced aerial images can be taken from various heights within set GPS tolerances and offer a complement to conventional methods. The Mapping Package includes a 36 megapixel RGB camera (Sony Alpha 7R) and delivers orthophotos or 3D models in Topcon ContextCapture software, powered by Bentley.

Intel® Cockpit™ Ground Control Station (GCS)

Data links, remote control of the camera and the controls for the Intel Falcon 8+ Drone – Topcon Edition are completely integrated into the GCS and provide absolute freedom of movement. Optional independent camera control allows two-person operation for inspection flights.

Central unit

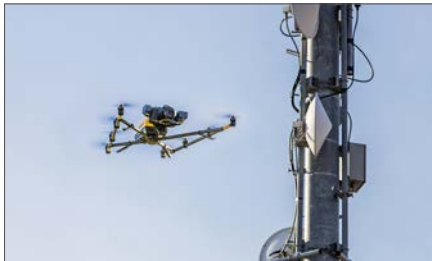Actively stabilized gimbal mount with camera

Carbon cross

Motor rails

Ease-of-use

- Minimal pilot corrections
- Simple plug and play camera integration
- GCS includes built-in automated flight functions
- Advanced flight planning via a PC
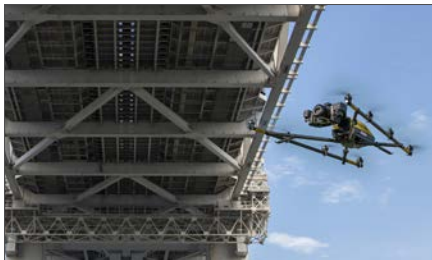- Automated, reproducible 3D flights

Designed for stability

- Balanced V-shape design
- Unaffected by magnetic interference
- Automatic compensation for wind gusts
- Active vibration damping

Built-in fail-safes

- Three autopilots
- Redundant electronics
- Redundant propulsion system
- Redundant radio links

Top-quality data

- Best-in-class sensors
- Automatically compensating camera mount
- Delivers detailed data
- Workplace tested since 2009

* The Intel® Falcon™ 8+ Drone – Topcon Edition may not yet be available in all markets*

For more information:
topconpositioning.com/falcon8plus