

Aerial Imaging Solution

Intel® Falcon™ 8+ Drone – Topcon Edition



Rotary-wing UAS designed
for inspection/monitoring,
or survey/mapping.

Innovative Design delivering Top-quality Data

Intel® Falcon™ 8+ Drone – Topcon Edition

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 mapping projects up to 30 hectares (86 acres) per flight.

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.

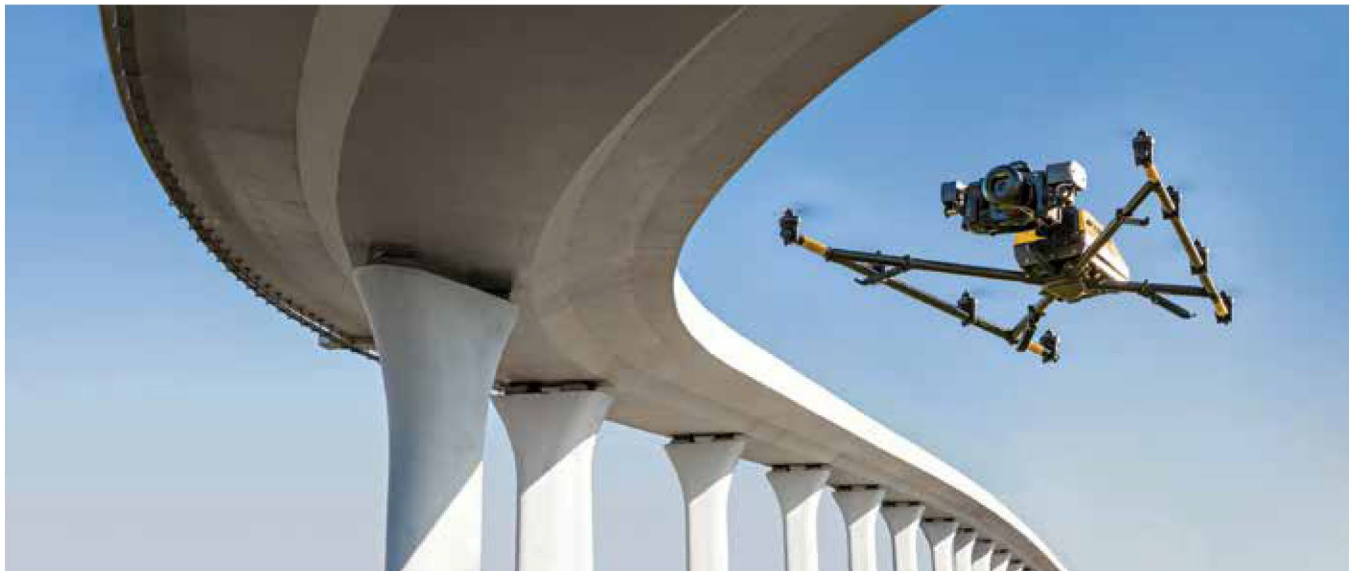
**Configurable for inspection
or mapping**

**Use multiple sensors
simultaneously**

Resistant to magnetic interference

Operational in windy areas

**Low noise, emission-free
operation**





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|--|----------------|
| 1 Central unit | 3 Carbon cross |
| 2 Actively stabilized gimbal mount with camera | 4 Motor rails |

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.





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



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