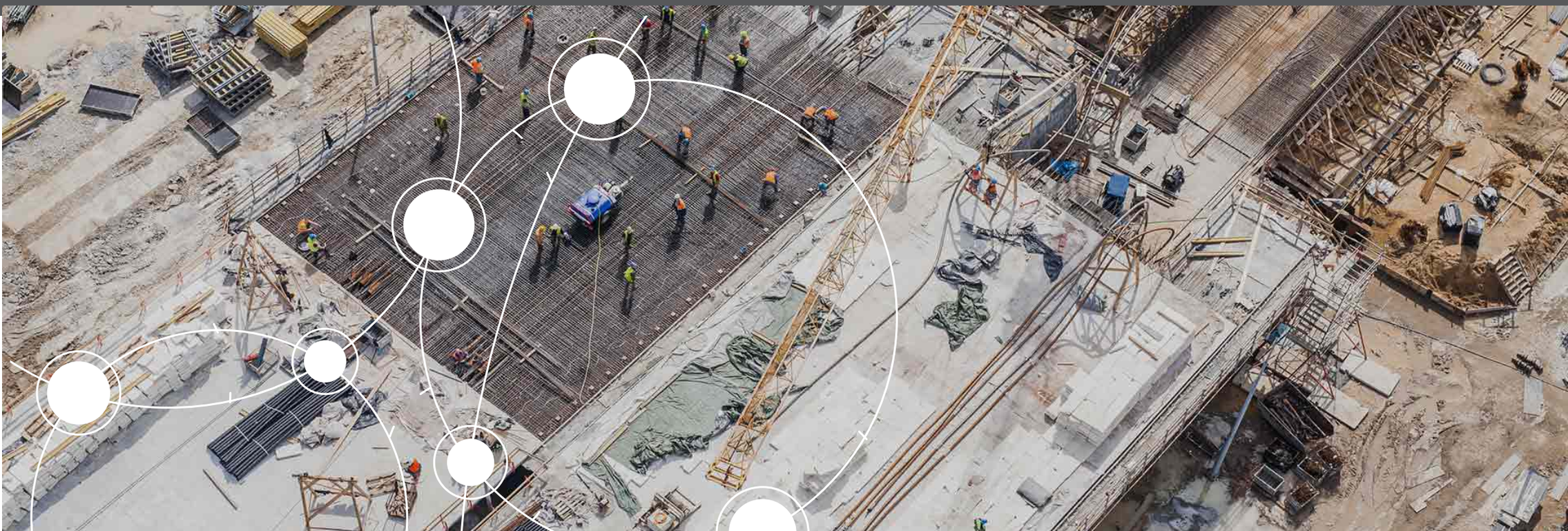
# ROBIN MINI +UAV

## LIGHTWEIGHT UAV LiDAR SYSTEM





| SYSTEM WEIGHT | |
|---|---|
| Scanner, IMU & x2 GNSS Antennas | 3.1kg |
| Optional Fit Anti-Vibration Mount | 0.5kg |
| Optional Fit 90 Wh Li-ion Battery | 0.7kg |
| Optional Fit GNSS Antenna Mounting Boom | 0.5kg |
| Total Weight (All Options) | 4.8kg |

The laser scanner miniVUX-1UAV meets or exceeds the requirements of the following European Standard: EN 61010-1:2010: Electrical equipment for measurement, control and laboratory use.
**Protection Class: IP64 - dust & splash-proof**

| HARDWARE | |
|---|---|
| Laser Scanner | miniVUX-1UAV |
| Inertial Navigation System (INS) | Dual Antenna Micro-electromechanical (MEMS) IMU |
| GNSS | x2 Harxon Helix Antennas |
| High Performance LiPo Lithium Batteries | Approximately 4 hours' flight time |

## More Power

The standard battery set-up allows for approximately 4 hours of data capture, with the option to connct to the main UAV power source. Batteries are also fully compaitible with most DJI chargers.

## Stable & Secure

The optional anti-vibration damper has been designed to isolate vibrations which are common with UAV flight.
Eliminating vibrations can enhance the data quality and accuracy of your survey.

ROBIN MINI +UAV








3D Laser Mapping specialise in integrating world leading geospatial technology with innovative and sophisticated workflows to provide enhanced results in any environment.

Weighing 3.1kg, the ROBIN MINI UAV LiDAR system can be mounted on to a standard commercial drone with a limited payload capacity, without compromising on accuracy or field of view. ROBIN MINI is ideal for applications where speed and accuracy are needed.The ROBIN MINI has been designed with ease of use in mind; the simple interface allows the system to be configured and operated at the touch of a button, with data from both the scanner and navigation system stored on-board to be downloaded at the end of the survey.

ROBIN MINI combines progressive waveform-LiDAR technology with an accurate, yet lightweight IMU (Inertial Measurement Unit) and dynamic processing software to deliver precise results with minimum effort. Easy to mount and operate, the system has an IP64 rating making it suitable for use in dusty and wet conditions, including snow.

## Lightweight & Compact

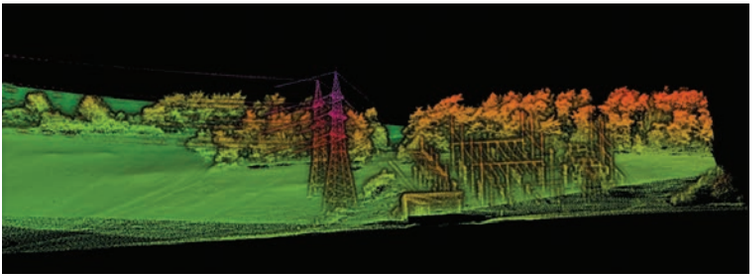
Weighing in at 3.1kg, ROBIN MINI has been designed with entry-level commercial UAVs in mind. Adding optional extras such as the anti-vibration damper keep the payload weight to under 5kg – suitable for many different commercial drone models.

## Advanced Positioning

The integrated IMU (Inertial Measurement Unit) incorporates two GNSS ports for unrivalled positioning, with a unique dual antenna mount to attach to almost any UAV. The on-board Extended Kalman Filter (EKF) fuses real-time intertial data with internal GNSS information.

## UAV Agnostic

ROBIN MINI is simple and easy to install on a range of UAV platforms, with all sensors securely mounted onto a single adjustable base-plate. The GNSS dual antenna mounts are also independent of the UAV system to allow for mounting on different systems.










# LIGHTWEIGHT LiDAR SYSTEM

3D laser mapping

**UK & EUROPE:**
Ranch House, Chapel Lane
Bingham, Nottingham,
NG13 8GF
UK
+44 (0) 1949 838 004

info@3dlasermapping.com

**ASIA PACIFIC:**
Level 3,
267 St Georges Terrace
Perth WA 6000
Australia
+61 (0) 8 9261 7703

perth@3dlasermapping.com

**AFRICA:**
Ground Floor, Lakeview Building
1277 Mike Crawford Avenue
Centurion, Gauteng, 0157
South Africa
+27 (0) 12 683 8766

info@3dlasermapping.co.za

**US & CANADA:**
4600 South Syracuse, 9th Floor,
Denver, Colorado
80237-2719
United States
+1 (0) 720 214 3554

denver@3dlasermapping.com

**www.3Dlasermapping.com/robin-mini**