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LiDAR Capability Statement

DJI Matrice 400 + Zenmuse L3 + D-RTK 3

Enterprise LiDAR, dual-RGB and RTK/PPK-supported capture for terrain, construction and infrastructure projects across Europe.



LIDAR 1535 NM	2 × 100 MP RGB	D-RTK 3	PLATFORM IP55

Services

- Terrain and investment-site mapping
- Construction progress, earthworks and volume documentation
- Road, rail, utility and industrial corridors
- Vegetation-aware ground capture
- As-built, change and condition documentation

Possible deliverables

- Georeferenced LAS/LAZ point cloud, classified as agreed
- DTM, DSM, contours, profiles and cross-sections
- RGB orthomosaic and contextual imagery
- Textured 3D model or change comparison where appropriate
- Source archive, coordinate reference, method and QA note

Verified system reference

- Zenmuse L3: 1535 nm LiDAR and dual 100 MP 4/3 RGB cameras
- Up to 16 returns at supported pulse rates
- DJI laboratory accuracy reference at 120 m: 3 cm vertical / 4 cm horizontal RMSE
- Matrice 400: IP55 and up to 6 kg payload; D-RTK 3 reference workflow
- Processing workflow with DJI Terra and project-specific validation

Project workflow

- Qualify purpose, area, coordinate system, accuracy target and outputs
- Review access, airspace, terrain, vegetation, safety and permissions
- Plan mission geometry, D-RTK 3 reference, RTK/PPK and control
- Capture LiDAR and RGB data
- Process, classify, validate and hand over the agreed package

Operating boundaries

- Manufacturer values are laboratory references, not a project guarantee.
- Final accuracy depends on GNSS corrections, control, geometry, surface, vegetation, processing and validation.
- A legally binding or cadastral survey requires an authorised surveyor and the applicable acceptance process.
- Higher-altitude operations require the applicable authorisation; weather and airspace may change the plan.
- LiDAR is not thermal imaging and does not replace physical tests or engineering judgement.

Information required for qualification

- Project location and polygon / approximate area
- Purpose of the data and decision it must support
- Required coordinate system and target accuracy
- Terrain, vegetation, structures and access conditions
- Required formats, classification, deadline and recipient
- Known airspace, site-HSEQ or confidentiality constraints

Project contact

Marcin Samotyja-Lenczewski
marcin@aeronautiq.eu
+48 535 995 334
https://aeronautiq.eu

Technical sources: official DJI Zenmuse L3 and Matrice 400 specifications. Accessed 24 October 2026.
https://enterprise.dji.com/zenmuse-l3/specs
https://enterprise.dji.com/matrice-400/specs