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# ZENMUSE L3

See Through, Far and True

DJI's next-generation high-accuracy aerial LiDAR system features a 1535nm long-range LiDAR capable of reaching up to 950 m even on objects with just 10% reflectivity, while maintaining exceptional penetration capabilities. Dual 100MP RGB mapping cameras and a high-precision POS system accelerate geospatial data acquisition, enabling daily coverage of up to 100 km². Paired with the D-RTK 3 Multifunctional Station, DJI Terra, and other DJI Enterprise software, Zenmuse L3 offers an end-to-end solution that simplifies operations and multiplies deliverable options.

## 1535nm Long-Range LiDAR

- Laser Wavelength: 1535 nm
- Maximum Detection Range: 950 m (center), 650 m (edge)@10% reflectivity
- Maximum Scanning FOV: 80°×80°
- Laser Beam Divergence: 0.25 mrad (1/e²)
- Ranging Accuracy: Absolute accuracy ±10 mm, repeatability < 5 mm (1σ), at 300 m with 80% reflectivity

## Dual 100MP RGB Mapping Camera System

- Horizontal FOV: 107°
- Dual 4/3 CMOS RGB Mapping Cameras: Support 100MP or 25MP resolution
- Minimum Photo Interval: 0.5 s (25 MP), 1 s (100 MP)

## High Accuracy

- Vertical Accuracy: 3 cm, Horizontal Accuracy: 4 cm (at 120 m)
- Vertical Accuracy: 5 cm, Horizontal Accuracy: 7.5 cm (at 300 m)
- High-Precision POS System: Yaw Accuracy: 0.02°, Pitch/Roll Accuracy: 0.01° (RMS 1σ, post-processed)

## High Penetration

- Adjustable laser pulse emission energy
- Supports up to 16 returns
- Supports Linear, Star-Shaped, and Non-Repetitive scanning modes

## Up to 100 km² per Day

- Single-flight coverage area up to 10 km² at a typical operational altitude of 300 m (nadir)
- Daily coverage area up to 100 km² at a typical operational altitude of 300 m (nadir)
- DEM and DOM generation in a single flight

## End-To-End Solution

- Data acquisition, processing, and application covered
- LiDAR and RGB fusion-based 3D reconstruction
- Gaussian Splatting for LiDAR reconstruction
- Point cloud semantic segmentation
- Supports multiple output formats, including DEM, TIN, grids of points, and contours

Scan the QR code for detailed product specifications.

**DJI CARE** ENTERPRISE PLUS

Free Repairs Within Coverage Limit, Water Damage Coverage, Free Two-Way Shipping

* All data was tested in a controlled laboratory environment. Actual experience may vary. For more details, refer to the product page on the official DJI website.
** Certain accessories are sold separately. For usage conditions and precautions regarding certain features, refer to the product page on the official DJI website.

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