DJI ENTERPRISE

Baugeräte HandelsgmbH

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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Drohnen ▪ Scanner ▪ GPS Systeme ▪ Tachymeter

TEL (+43 2249) 28 495
office@am-laser.at ▪ www.am-laser.at