Product specification sheet

Product	DJI Zenmuse L1
SKU	DJI-ZL100
Brand	DJI
Category	Camera & Photo
Minimum order quantity	1
Unit	—
Unit price	$10,000.00
Available quantity	100

Description

HIGHLIGHTS: The Livox sensor has a max capable range of up to 450 meters 10 cm horizontal accuracy rating at a flight height of 50 meters Up to 3 returns for optimal vegetation penetration (adjustable in DJI Pilot app) Up to 240,000 points per second single return, 480,000 pts for dual A Lidar + RGB Solution for Aerial SurveyingThe Zenmuse L1 integrates a Livox Lidar module, a high-accuracy IMU, and a camera with a 1-inch CMOS on a 3-axis stabilized gimbal. When used with Matrice 300 RTK and DJI Terra, the L1 forms a complete solution that gives you real-time 3D data throughout the day, efficiently capturing the details of complex structures and delivering highly accurate reconstructed models. Digitize without CompromiseExceptional EfficiencyGenerate true-color point cloud models in real-time, or acquire 2 km2 of point cloud data in a single flight [1] using the Livox frame Lidar module with a 70° FOV and a visible light camera with a 1-inch sensor. Unparalleled AccuracyRender centimeter-accurate reconstructions thanks to the high-accuracy IMU, a vision sensor for positioning accuracy, and the incorporation of GNSS data. Ready When You AreThe IP44 rating allows the L1 to be operated in rainy or foggy environments. The Lidar module’s active scanning method enables you to fly at night. Visualize Data as You FlyLivox Lidar Module- Frame Lidar with up to 100% effective point cloud results- Detection Range: 450m (80% reflectivity, 0 klx) / 190 m (10% reflectivity, 100 klx)- Effective Point Rate: 240,000 pts/s- Supports 3 Returns [3]- Line Scan Mode and Non-repetitive Scan Mode Everything in ViewRGB Camera- 20MP- 1-inch CMOS- Mechanical Shutter Accurate Details at Your DisposalHigh-accuracy IMU- Accuracy: 0.025° (roll/pitch) / 0.08° (yaw)- Vision Sensor for Positioning Accuracy- GNSS, IMU, RGB Data Fusion Recreate the World in 3D Point CloudsPoint Cloud LiveViewReal-time point clouds provide immediate insights onsite, so operators are informed to make critical decisions quickly.You can also verify fieldwork quality by checking point cloud data immediately after each flight. Measurement and AnnotationAcquire and communicate critical dimensions on the point cloud model using measurements and annotations. One-stop Post-processingDJI Terra fuses the IMU and GNSS data for point cloud and visible light calculations, in addition to conducting POS data calculations so you can effortlessly generate reconstructed models and accuracy reports. Application ScenariosTopographic MappingQuickly generate topographic maps using accurate digital elevation models. AEC and SurveyingManage the full project lifecycle using highly accurate point clouds and 3D models. Emergency ResponseAny time of the day, gather critical insights in real-time using true-color point clouds. Law EnforcementGain situational awareness and forensic intel in real-time to make informed decisions on site. Energy and InfrastructureModel sparse or complex structures in detail to manage them efficiently and safely. Agriculture and Forestry ManagementGain insight into vegetation density, area, stock volume, canopy width, and growth trends.CineGear ME is DJI ONLY authorized reseller in Lebanon. Contact us via email : info@cinegearme.com or call on +96170019793