Dewberry

RIEGL VQ-1560 II-S

AIRBORNE TOPOGRAPHIC LIDAR SENSOR

Our clients have access to the highest caliber data on the market

The RIEGL VQ-1560 II-S system, with its rotating mirror design and high-output dual laser technology, allows our team to fly higher and faster on large-scale mapping projects and corridor work. This system gives our clients access to more dense, high-precision data with uniform point distribution, faster acquisition, and more responsive service. It also expands the market for lidar data and derivative products to support mapping applications, urban planning, forestry, and agriculture.

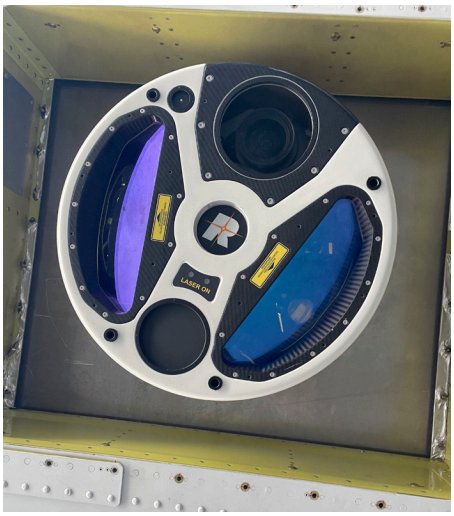
Highlights

- High efficiency – 4 MHz sensor capable of 2.66 million measurements per second and unlimited returns per laser pulse
- 3-band (RGB) 150 megapixel co-acquired imagery
- Can achieve accuracies of 2 inches (< 5 cm RMSE) or better
- High density offers 40 ppsm and 1 km swath when flown at 3,000 ft AGL
- Small footprint and short pulse duration for accurate modeling of small-scale features

Applications

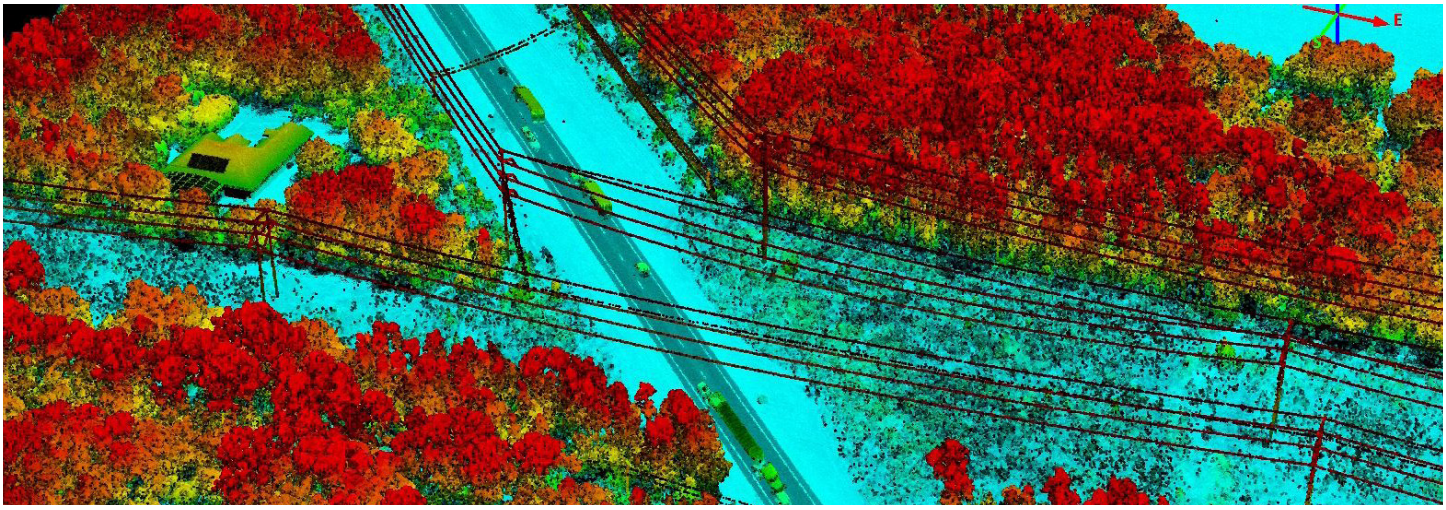
- Wide-area/high-altitude mapping
- Ultra-high point density mapping of complex urban environments
- Corridor mapping for utilities and transportation
- 3D planimetric feature extraction
- Land use/land cover modeling
- Forestry and agriculture
- Mapping of complex urban environments
- Mapping lakesides/riverbanks
- Identifiable estuarine wetlands
- Sea level rise and coastal modeling
- Infrastructure and construction monitoring and management
- Supervised classification of vegetation
- Cultural resources preservation and management
- Post-disaster debris volume calculation
- Monitoring mining, earthwork, and dredging activities
- Line of Sight modeling

SPECIFICATION	SPEC. DENSITY (PPSM)	AVG. DENSITY (PPSM)	FLIGHT ALTITUDE (AGL, FT)	SWATH WIDTH (KM)
QL2	2	3	9,100	3.1
QL1	8	10	6,400	2.2
QL1+/HD	16	19	4,300	1.5
Corridor HD	50	60	2,600	0.9

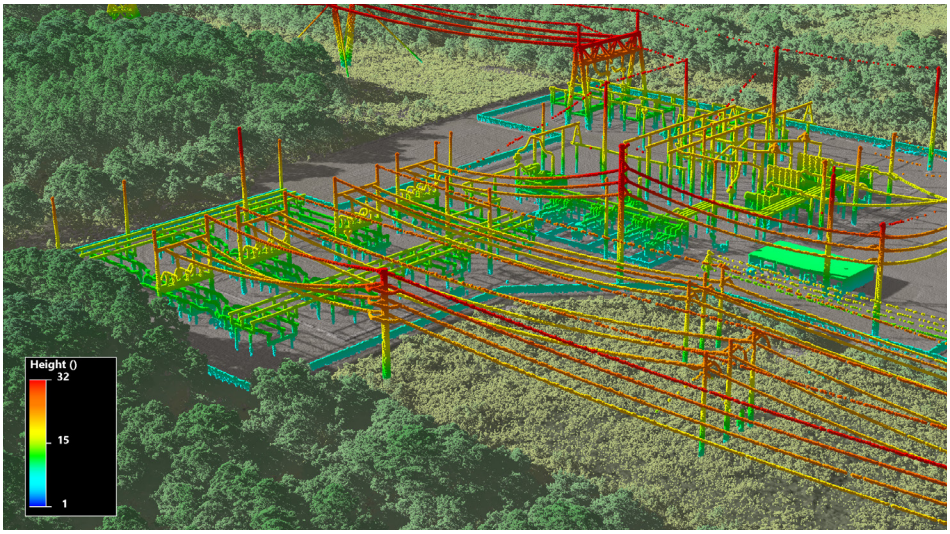


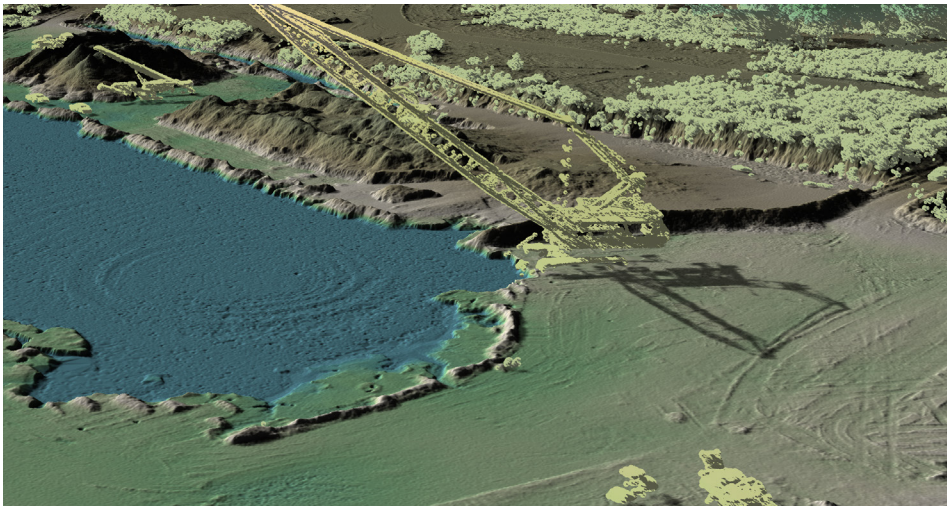
RIEGL VQ-1560 II-S installed on the Cessna T303 Crusader

The colorized point cloud data and lidar intensity imagery shown here illustrates the level of detail that can be captured by the VQ-1560 II-S using an airborne platform.



DELIVERING HI-DEFINITION LIDAR DATASETS QUICKLY AND EFFICIENTLY





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