



Software & Systems

Acadia

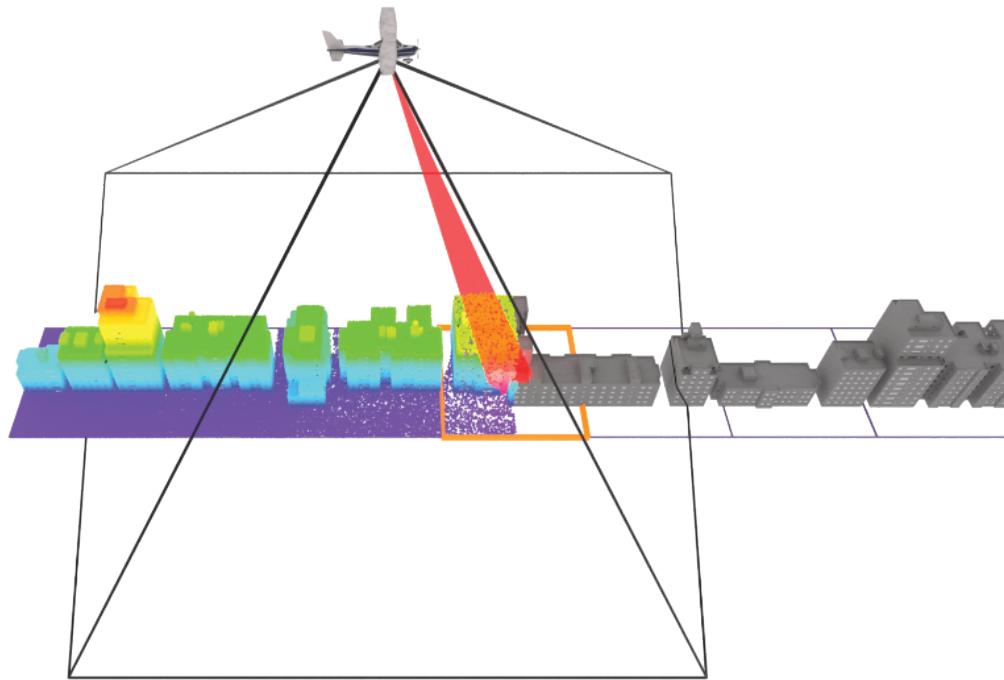
Acadia is 3DEO's software suite for processing raw lidar data into finished high-density 3D point clouds, complete with derived metadata such as relative reflectivity, height above ground and point confidence.

- Scalable across a compute cluster for elastic capability
- Easily incorporate customized processing modules
- Licensed on a per-sensor basis



Agile geo-referenced scanning

Lidar systems collect from 4 - 6 viewpoints in a single pass. The combined scans mitigate shadows under forest canopy and within urban canyons.



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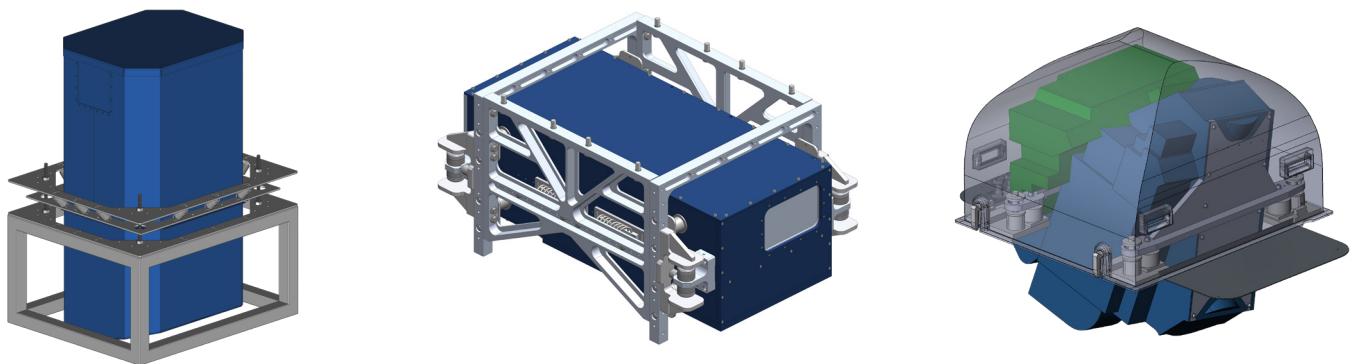
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Lidar systems

	ZION	WRANGELL	SEQUOIA
Typical flying height	3,000 – 12,000 ft	5,000 – 16,000 ft	20,000 – 50,000 ft
Collection rate (de-noised points/sec)	9 – 12 million/sec at 8,000 ft	16 – 20 million/sec at 8,000 ft	20 – 30 million/sec at 27,000 ft
Number of detector pixels	4,000	8,000	8,000
Ground spatial resolution (FWHM)	76 µrad 19 cm at 8,000 ft	76 µrad 19 cm at 8,000 ft	34 µrad 29 cm at 27,000 ft
Vertical resolution and precision	Minimum surface separation: 20 cm FWHM Typical precision: 5 cm RMS		
Field of regard	40 x 40 deg (-35 to +5 deg cross-track)	40 x 40 deg (-35 to +5 deg cross-track)	V1: 36 x 48 deg (-8 to +28 deg cross-track) V2: 54 x 60 deg (-18 to +36 deg cross-track)
Laser power and system aperture	36 W, 4 cm	50 W, 4 cm	100 W, 13 cm
Inertial navigation system	Trimble APX-20	Trimble APX+60	Trimble APX+60
Size and weight of optical unit	627 x 523 x 914 mm, 213 lbs	876 x 541 x 914 mm, 295 lbs	1198 x 851 x 884 mm, 266 lbs
Development status	All have been deployed operationally outside the US by government entities.		



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