






UNAVCO Resources: Terrestrial Laser Scanning (TLS)

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UNAVCO Resources: Terrestrial Laser Scanning

UNAVCO provides Terrestrial Laser Scanning (TLS) support to Earth science researchers in the UNAVCO community. We currently maintain a pool of six scanners - summarized below - as well as supporting field equipment (e.g., GPS systems, tripods), [software](#), and staff trained in best practices for operation of these systems. Click on the scanner for more information. UNAVCO's TLS systems were acquired under funding from the National Science Foundation Division of Earth Sciences (EAR) and Division of Polar Programs (PLR).

For a comparison of spaceborne, high altitude, airborne, and terrestrial LiDAR systems, see [Comparison of LiDAR Systems](#).

	TLS system	No. of Scanners Owned by UNAVCO	Min. range	Max. range	Power draw	Field of view	Weight	Operating temp.
	RIEGL VZ-2000	1	2.5 m	2,050 m	85 W	100° x 360°	9.9 kg / 21.83 lbs	-40°C - 50°C
	RIEGL VZ-1000	1	2.5 m	1,400 m	82 W	100° x 360°	9.8 kg / 21.6 lbs	0°C - 40°C
	RIEGL VZ-400	3	1.5 m	600 m	65 W	100° x 360°	9.8 kg / 21.6 lbs	0°C - 40°C
	RIEGL LMS-Z620	1	2 m	2,000 m	75 W	80° x 360°	16 kg / 35 lbs	0°C - 40°C
	Leica ScanStation C10	1	0.1 m	300 m	50 W	270° x 360°	13 kg / 28.7 lbs	0°C - 40°C

Previous UNAVCO Terrestrial Laser Scanners

	TLS system	Year Retired	Min. range	Max. range	Power draw	Field of view	Weight	Operating temp.
	Optech ILRIS-3D	October, 2012	3 m	1,500 m	75 W	40° x 40°	13 kg / 28.7 lbs	-25°C - 40°C

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