

# Airborne and terrestrial laser scanning

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**What is the difference between airborne and terrestrial LiDAR?** The airborne LiDAR is a laser scanning system that is attached to a drone, airplane, or helicopter. Compared to terrestrial LiDAR, it saves time and budget since it can cover more areas in a shorter period of time.

**What is a terrestrial laser scanner?** Terrestrial Laser Scanning is an active instrument used in Earth and Planetary Sciences that can accurately measure distances up to 2000 m without the need for common station points in subsequent surveys. AI generated definition based on: Journal of Volcanology and Geothermal Research, 2007.

**What is the meaning of airborne laser scanning?** Airborne Laser Scanning is a rapid and highly accurate measurement method, used to measure the surface of the earth with the use of pulses of light and their reflections (produced by a laser light source).

**What is the difference between LiDAR and terrestrial laser scanner?** The main difference between TLS and LiDAR is the position and movement of the scanner. TLS is a stationary system that scans a specific area from a fixed point, while LiDAR is a mobile system that scans a larger area from a moving platform, such as a drone, a vehicle, or an aircraft.

**What are the advantages of terrestrial LiDAR?**

**What are the three types of LiDAR?**

**What is airborne LiDAR?** Airborne lidar (also airborne laser scanning) is when a laser scanner, while attached to an aircraft during flight, creates a 3-D point cloud

model of the landscape. This is currently the most detailed and accurate method of creating digital elevation models, replacing photogrammetry.

**What is the difference between total station and terrestrial laser scanner?**

Though dedicated laser scanning is more expensive than total station scanning and often requires more use to make the business case, the technology can be used throughout a project to ultimately save time and reduce rework, plus the data can be used by the owner in the maintenance and operations stage, which brings a ...

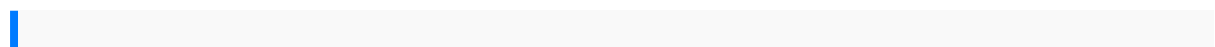
**What are the applications of terrestrial LiDAR?** LiDAR can be used to measure the vertical structures and density of the canopy in forests. This data can then be analyzed for environmental impact, land management, and fire prevention planning.

**What is airborne LiDAR?** Airborne lidar (also airborne laser scanning) is when a laser scanner, while attached to an aircraft during flight, creates a 3-D point cloud model of the landscape. This is currently the most detailed and accurate method of creating digital elevation models, replacing photogrammetry.

**What is the difference between radiation and terrestrial radiation?** Solar radiation describes the power emitted by the sun. Insolation refers to the amount of solar radiation reaching the planet. However, as the sun's rays flow through the atmosphere, the upper layer of the atmosphere absorbs some of the heat. Terrestrial radiation is radiation emitted by the earth.

**What is the difference between airborne and spaceborne sensors?** Image characteristics such as foreshortening, layover, and shadowing will be subject to wide variations, across a large incidence angle range. Spaceborne radars are able to avoid some of these imaging geometry problems since they operate at altitudes up to one hundred times higher than airborne radars.

**What is the difference between terrestrial and aerial?** Aerial photogrammetry is generally utilized on large or difficult to access sites and can cover large areas quickly while terrestrial photogrammetry is more object-focused. The scale of the project will determine the best methodology for a photograph collection.



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