



POINT CLOUD

 DATA SHEET



Point Cloud

For decision-makers who need to understand measured surface heights of terrain, structures and vegetation, with coregistered information embedded, Maxar offers high-accuracy point cloud data, available today with global coverage regardless of terrain type. The data is produced with a unique automated technology, delivered rapidly and with high precision. It is based on Maxar's commercial satellite imagery, without ground control points.

UNIQUE 3D TECHNOLOGY

Maxar's unique 3D technology is a combination of stereophotogrammetry and big data processing. The fully automated technology is sensor agnostic and does not require ground control points.

Superior accuracy

Maxar Point Cloud is a photogrammetrically derived RGB colorized point cloud product derived from Maxar 3D Surface model, and it is perfectly coregistered to Maxar 3D products. Point Cloud offers x, y and z measurements pulled directly off the 3D mesh and attributed with RGB values sourced from the photo-textured surface, allowing optical land cover information in a format compatible to customers accustomed to lidar data.

Accurately aligned global foundation

All Maxar 3D data products are built from commercial satellite imagery, using the same industry-leading automated 3D production process and highest standards. The core output—Maxar 3D Surface Model—is the most accurate 3D representation of Earth. It is a 50 cm resolution 3D product with real textures and an absolute accuracy of 3 m in all dimensions. The accuracy is achieved without ground control points and is consistent on all surfaces and terrain types, including building facades.

Features and benefits

Global coverage

- Maxar has the world's largest commercial archive of high-quality satellite imagery, which provides a foundation for consistent global coverage.

Rapid delivery

- Instant deliveries are available from the quickly growing off-the-shelf archive via physical media or electronic download. Current delivery time for countrywide areas of interest not yet on the shelf is weeks to months.

MAXAR

Global coverage

The resolution and accuracy of Maxar Point Cloud data provide for superior analysis and decision-making in a range of applications:

- Security and defense
- Mapping
- Energy and natural resources
- Infrastructure and construction
- Agriculture and flood management
- Radio and telecommunications
- Risk and disaster management

Data exploitation

Maxar Point Cloud is delivered in a standard LAS format for immediate use in existing software and systems.

SPECIFICATIONS

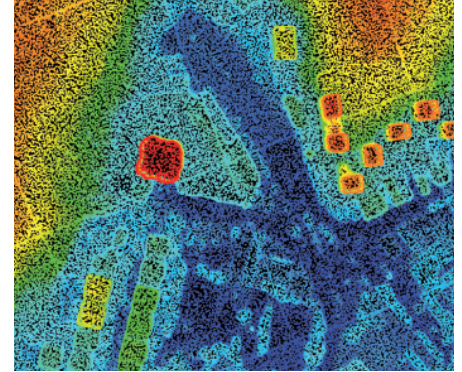
Accuracy	Absolute: 3 m LE90
	Relative: 1 m LE90
Point spacing	50 cm
Point density	4 ppm
Point attributes	True RGB spectral returns for each point
Projection	Compliant with common reference systems
Datum	WGS84, height above ellipsoid
Data format	LAS 1.2 (RGB colorized)
Delivery	FTP or HDD



Maxar Point Cloud representation of Rio de Janeiro, Brazil

ACCESS

Maxar Point Cloud is generated from satellite imagery and available anywhere on the globe, even in areas that are inaccessible to traditional aerial sensors. The resulting LAS point cloud is fully compatible with traditional lidar processing and exploitation tools.



Maxar Point Cloud representation of Rio de Janeiro, Brazil