



Left: Traditional orthorectified imagery of Las Vegas courtesy of DigitalGlobe.
Right: Vricon True Ortho, without parallax or occlusion.

VRICON TRUE ORTHO

ACCURATE ORTHOIMAGERY WITHOUT PARALLAX

GLOBALLY AVAILABLE ORTHOIMAGERY WITHOUT PARALLAX OR OCCLUSION

Vricon True Ortho is an accurate, seamless 2D image mosaic that represents a true nadir rendering of every single point on Earth. Based on industry-leading automated 3D modeling technology, the Vricon True Ortho product provides users and analysts with the most accurate and complete full-color image layer available. The horizontal error relative to Vricon DSM is zero.

Superior accuracy and alignment

Vricon True Ortho is a derivative of Vricon 3D Surface Model and is fully aligned with Vricon elevation data. All Vricon data products are built from commercial satellite imagery, using the same industry-leading automated 3D production process and highest standards. The core output – Vricon 3D Surface Model – is the most accurate representation of earth. It is a 0.5m-resolution 3D product with real textures and an absolute accuracy of 3m in all dimensions, SE90. The accuracy is achieved without ground control points and is consistent on all surfaces and terrain types, including building facades. SE90 is the abbreviation for Spherical Error 90%, which is a measure that combines the traditional LE90 and CE90 measures.

Better decisions

The resolution and accuracy of Vricon True Ortho imagery provide for superior analysis and decision-making in a range of applications:

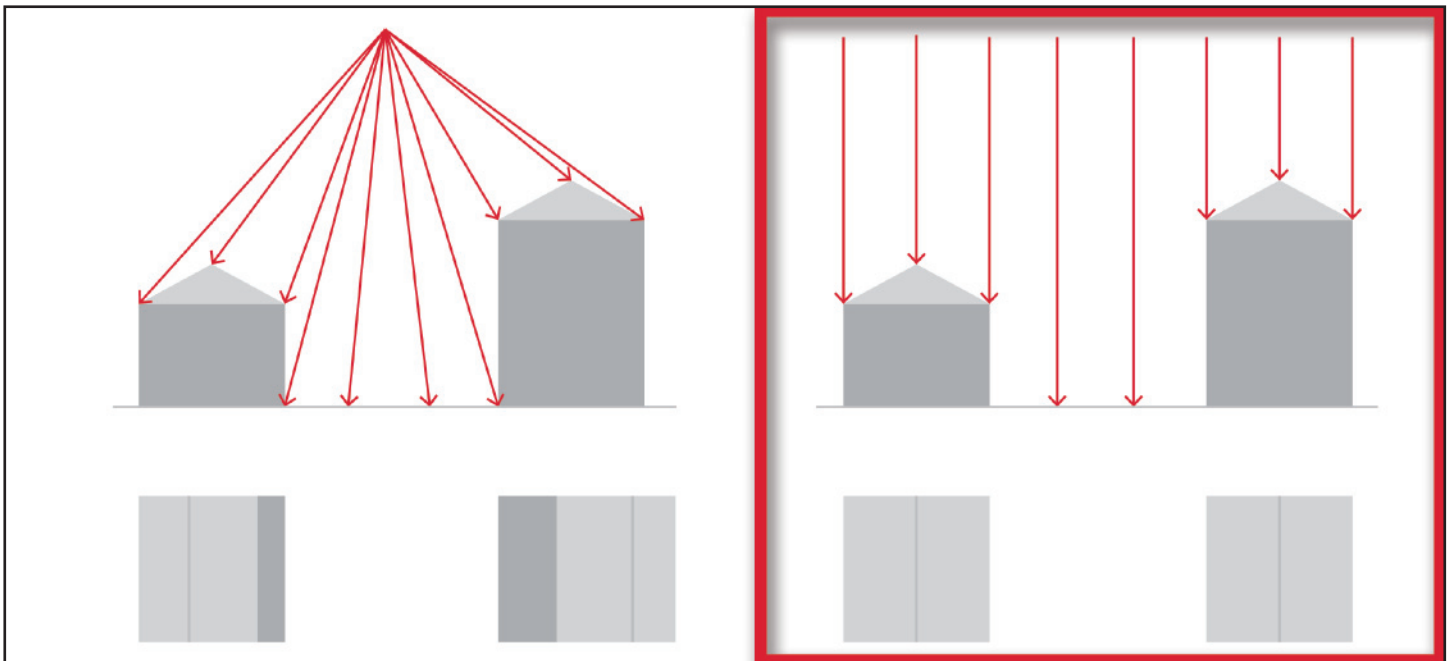
- Security and defense
- Mapping
- Cadaster analysis
- Infrastructure and construction
- Energy and natural resources
- Flood management
- Risk and disaster management

Global coverage

Vricon's unique access to the largest commercial archive of high-quality satellite imagery provides a foundation for consistent global coverage.

Data exploitation

Vricon True Ortho is delivered in traditional formats, such as GeoTIFF, for immediate use in existing software and systems.



Left: Traditional point-source orthorectification projection.

Right: Vricon True Ortho, a true nadir parallel projection. The illustration shows a side view of two houses with projection beams, and the respective orthorectified imagery. Vricon True Ortho provides parallax-free and occlusion-free imagery with higher accuracy.

Rapid delivery

Instant deliveries are available from the fast growing, off-the-shelf archive via physical media or electronic download. Current delivery time for countrywide AOIs not yet on the shelf is weeks to months. Total production capacity by mid-2016 is projected at 2 million square kilometers per month.

Unique technology

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

FEATURES

- Global coverage
- Superior accuracy
- Market-leading resolution
- Rapid deliveries
- Covers all terrain types

ACCURACY

- 3m absolute CE90
- 2m relative CE90
- Fully aligned with Vricon DSM
- Valid on all surfaces and terrain types
- Valid without using ground control points

SPECIFICATIONS

- File format: Standard GeoTIFF, 8-bit RGB
- Projection: Compliant with common reference systems
- Delivery media: FTP download or physical HDD via courier
- Availability: Global coverage based on commercial satellite data

* Specifications subject to change without notice