

PRODUCT

ORBIS 4.2 — Product Brochure

Capability overview, editions, specifications and stated limitations for the ORBIS platform.

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This document is fictional and forms part of a training environment.

Terravek ORBIS

The analysis-ready Earth observation platform.

ORBIS is the foundation everything else at Terravek sits on. It handles the unglamorous work between a raw downlink and a decision: orthorectification, atmospheric correction, co-registration across sensors and dates, and the propagation of measurement uncertainty through every step.

Where most platforms give you an image, ORBIS gives you an image plus an ISO 19157 quality report. If two scenes taken eight months apart cannot honestly be compared, ORBIS says so rather than producing a confident-looking change map.

ORBIS is available as ORBIS Cloud (managed, in eu-nl-1 and eu-de-1), ORBIS Enterprise (deployed in your own cloud tenancy) and ORBIS Core (on-premise, for customers with data-residency constraints that leave no alternative).

Capabilities

Capability	Detail
Multi-sensor fusion	Optical, SAR, LiDAR, hyperspectral and in-situ sources in one analysis-ready data model.
Traceable radiometry	Every product carries an uncertainty budget traceable to the Vollenhove Polder calibration range.
Sub-pixel co-registration	Automated tie-point matching holds multi-date stacks to better than 0.3 pixel RMSE.
Quality statements	ISO 19157-conformant data quality reports generated per delivery, not per project.
Open formats	Cloud-optimised GeoTIFF, STAC catalogues, GeoParquet. No proprietary container.
ATLAS API access	Every ORBIS capability is available through the ATLAS API and the published SDKs.

Editions

Edition	Description
ORBIS Cloud	Managed service in eu-nl-1 (Amsterdam) or eu-de-1 (Frankfurt). Subscription, priced per AOI km ² per month.
ORBIS Enterprise	Deployed into your own cloud tenancy. Annual licence plus support.
ORBIS Core	On-premise installation for data-residency constrained customers. Annual licence, minimum three years.

Specifications

Specification	Value
Supported optical sensors	42 platforms, including all Terravek partner constellations
Supported SAR sensors	11 platforms, C- and X-band
Maximum AOI per task	250,000 km ²
Typical delivery latency	90 minutes (Svalgrund downlink) to 6 hours (partner archive)
Coordinate reference systems	Any EPSG-registered CRS; ITRF2020 internal reference frame
Deployment regions	eu-nl-1 (Amsterdam), eu-de-1 (Frankfurt)
API	ATLAS REST v3, OpenAPI 3.1 specification published

Specification	Value
Certifications in scope	ISO/IEC 27001:2022, ISO/IEC 27017:2015, SOC 2 Type II

Stated limitations

Terravek states product limitations in the brochure rather than in a footnote during procurement. The sales cycle is eleven months and the truth surfaces anyway.

- Cloud cover above 60% in the acquisition window will delay optical delivery; ORBIS will not interpolate through cloud and present it as observation.
- Sub-metre products depend on partner tasking availability and are not guaranteed within the standard latency SLA.
- ORBIS Core does not receive feature releases between annual versions.

How to buy

Sales	sales@terravek.com · +31 15 251 8400
Partners	partners@terravek.com — see terravek.com/partners/
Documentation	https://docs.terravek.com/orbis/4.2/
Support	support@terravek.com · service levels at terravek.com/services/support.html
Evaluate free	ATLAS Sandbox tier — atlas.terravek.com , no commercial conversation required