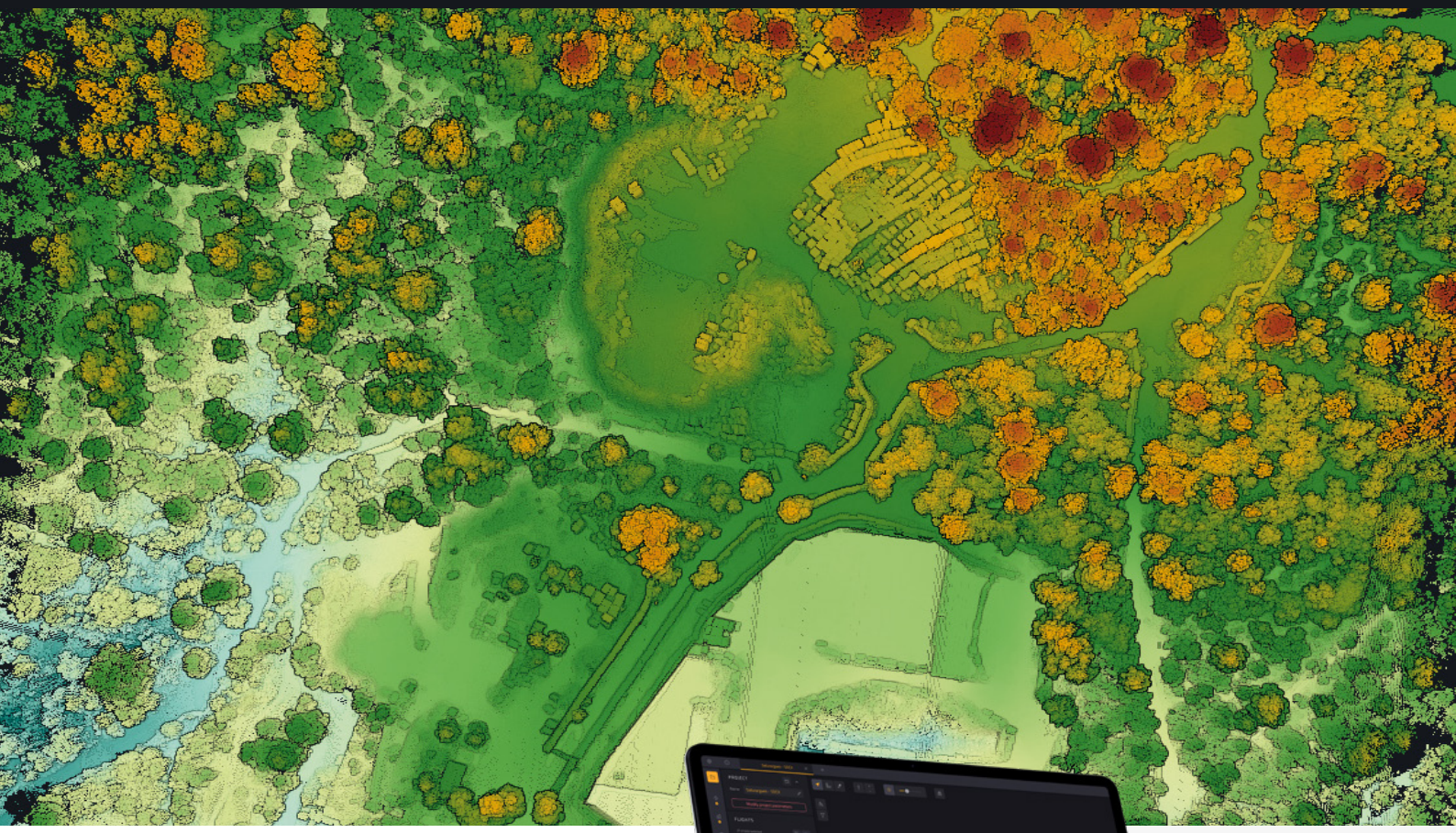


YellowScan CloudStation.

Turn physical projects into digital realities.

The CloudStation is an evolutive and user-friendly LiDAR software, developed by YellowScan, to generate and visualize point clouds.

Our software provides you with auto-detection of strips, in-depth configuration and LAS files exports to interface with all your tools.

Main features

- User-friendly graphical interface
- Automatic or custom lidar strip selection
- Process and export in .LAS / .LAZ format
- Advanced visualization tools
- Project setttings: Coordinate System, LiDAR profile, angle range...
- Floating license

Software description.

YellowScan CloudStation provides a complete software solution to create and manipulate point cloud data. It allows to extract, process and display data immediately after flight acquisition.

The auto-generation of lidar strips and the production of LAS files are done in only few clicks.

To allow for remote work in the field, the CloudStation can be used offline for 30 days.

The floating license enables CloudStation to be installed on multiple devices, with simultaneous usage limited to the number of licenses managed by the license server.

The software is provided with support, maintenance and updates at no additional costs during the first year after purchase.

General characteristics.

CloudStation software :

Technical specifications

- Operating on Windows 10
- Automatic updates
- Offline license capability
- Optional extra license seats

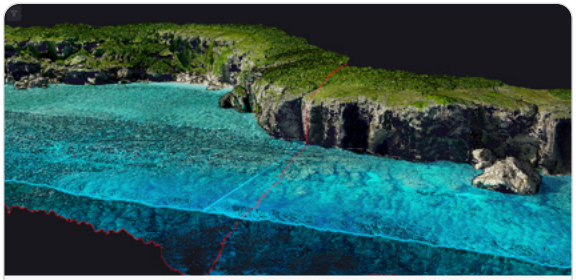
Display options

- EDL filter
- Measurement tools
- Custom image export
- Point color: Elevation, Intensity, Echo...

Key features :

Strip adjustment

- Seamless adjustment of lidar strips
- State of the art adjustment algorithms
- Use of Ground Control Points (GCPs) for final adjustments
- One-click adjustment



YellowScan Navigator point cloud

Point cloud classification

- Automatic classification of points as «ground/non-ground»
- Export classified LAS
- Export Digital Model from your classified point cloud as geolocalized TIFF
- Generate hillshade of your DTM

Point cloud colorization

- Export colorized point clouds from simultaneous LiDAR + camera acquisition
- Export colorized point clouds from orthophoto
- Colorize and visualize your strips in only few clicks
- Automatic LiDAR - camera calibration refinement

CloudStation bundles.

Essential

Visualize, inspect, colorize from orthophotos, and export your data.

Pro

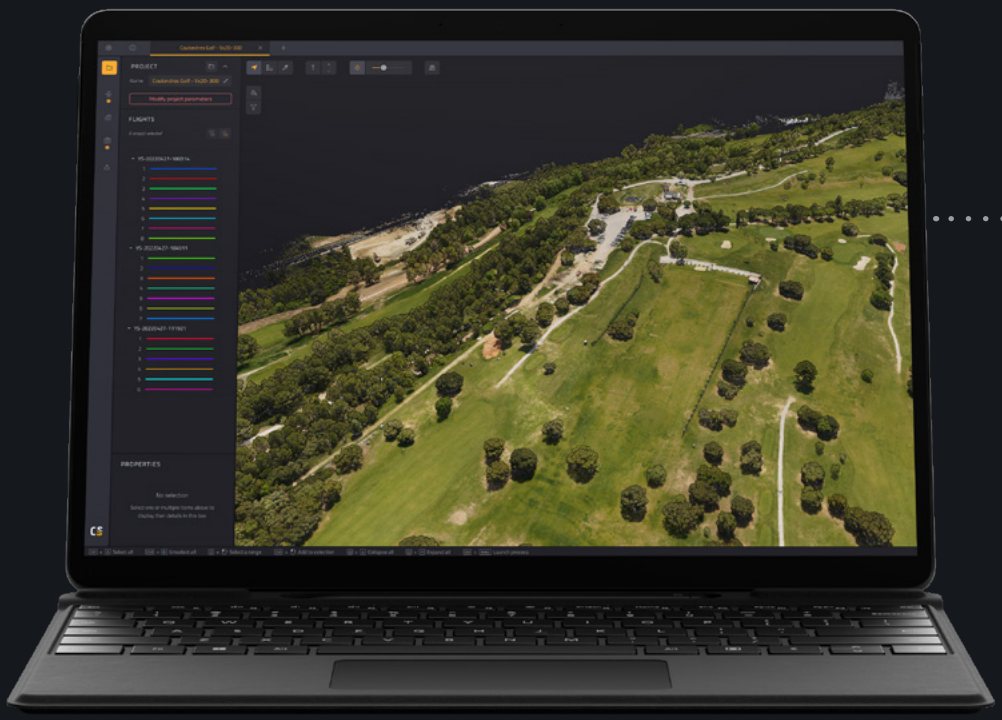
Visualize, inspect, refine your data quality, enrich your data with classification and color, and unlock more export features.

Ultimate

Zero compromise, all features activated. Includes Orthophoto generation and Command Line (ytk) processing for automation & batching.

	Essential	Pro	Ultimate
Georeference Raw YellowScan data	✓	✓	✓
Strips timestamps management (auto + manual)	✓	✓	✓
Iterative water classification (Navigator)	✓	✓	✓
POSPac & Qinertia integration: Easy SBET generation within CloudStation	✓	✓	✓
Remove Outliers	✓	✓	✓
Colorization from Orthophotos	✓	✓	✓
Export in multiple formats	✓	✓	✓
Upload to ATIS.Cloud services (Upcoming)	✓	✓	✓
Import GCP files		✓	✓
Display GCP in the Viewport along with the point cloud		✓	✓
Robust Strip Adjustment Algorithm		✓	✓
Precise (Time-Dependent) Strip Adjustment Algorithm		✓	✓
Utilize GCPs during Strip Adjustment to constrain accuracy		✓	✓
Cut Overlap		✓	✓
Colorization from Images		✓	✓
Strip Adjustment Report (accuracy, precision, mismatch..)		✓	✓
Export DTM, DSM, DHM and Hillshade		✓	✓
Automated Trajectory QC		✓	✓
YTK: Command line / batch processing for server processing			✓
Orthophoto generation			✓

Typical point cloud snapshots.



YellowScan Vx20 series

- Flight height: 50 m AGL
- Speed: 5 m/s
- Colorized point cloud

YellowScan Voyager

- Flight height: 180 m AGL
- Speed: 31 m/s
- Strip adjusted point cloud