



YellowScan Venturer.

Confidence when it matters most

Built for survey and government missions where there is no second chance to fly, the YellowScan Venturer is an NDAA-compliant, survey-grade LiDAR system designed to remove uncertainty in the field.

It gives teams confidence at takeoff, reliable results and full control over locally processed data through our dedicated CloudStation software.



— NDAA compliant



— Technologies inside

 **Trimble**.  **Applanix**

 **RIEGL**



— **Key differentiators**

- 360° scanning with Burst Mode
- Dual global shutter embedded camera
- Yellow Touch



— **UAV Integrations**

- Single-rotor UAV
- Multi-rotor UAV

Technical specifications.

Laser scanner	Riegl miniVUX-3
GNSS inertial solution	Applanix APX-RTX 20
Precision ⁽²⁾ (³)	1.5 cm
Accuracy ⁽²⁾ (³)	2 cm
Typ. flight speed	5 m/s
Typ. flight height	100 m
Max. rec. flight height	120 m
Point density	150 pts/sqm @ 50m AGL 5m/s
Laser range	150 m
Laser wavelength	905 nm
Scanner field-of-view	360° (120° in Burst Mode)

(1) Precision, also called reproducibility or repeatability, accounts for the variation in successive measurements taken on the same target.

(2) Accuracy is the degree of conformity of a measured position to its actual (true) value.

Max. data generated ⁽⁴⁾	1 500 000 points/sec
Echoes per shot	5
Shots per second	300 000
Scanning frequency	Up to 100 Hz
RGB camera	Dual embedded global shutter
Weight	2450 g (5.40 lbs) batt. Excl.
Size	L 31.4 x W 12.7 x H 13.2 cm
Battery autonomy	1 hour typ.
Power	10-34 V
Power consumption	50 W
Operating temperature	-10 to +40 °C

(3) 1σ @ 50 m, nadir

(4) Theoretical maximum of points with all shots yielding the maximum number of echoes. May vary depending on flight and survey conditions, and surveyed environment.

Package includes.


✓ Hardware :

- YellowScan Venturer
- 2 Batteries
- Rugged pelicase
- GNSS antenna and cable
- 2 USB flash drives
- Documentation

✓ Services :

- 1-year warranty & unlimited technical support
- In-person or online training
- Boresight calibration certificate

✓ Software :

- Applanix POSPac to post-process GNSS and inertial data for highest accuracy
- CloudStation Essential  Visualize, inspect, colorize from orthophotos, and export your data.



⊕ Optional accessories and enhancements :

- Stand-alone mounting bracket and quick release adapters
- YellowScan LiveStation: the real-time in-flight LiDAR monitoring kit (includes software & 2 radio-modems)
- Warranty and technical support extensions
- Single- or Dual-camera modules (RGB)
- Warranty and technical support extensions

● CloudStation Pro

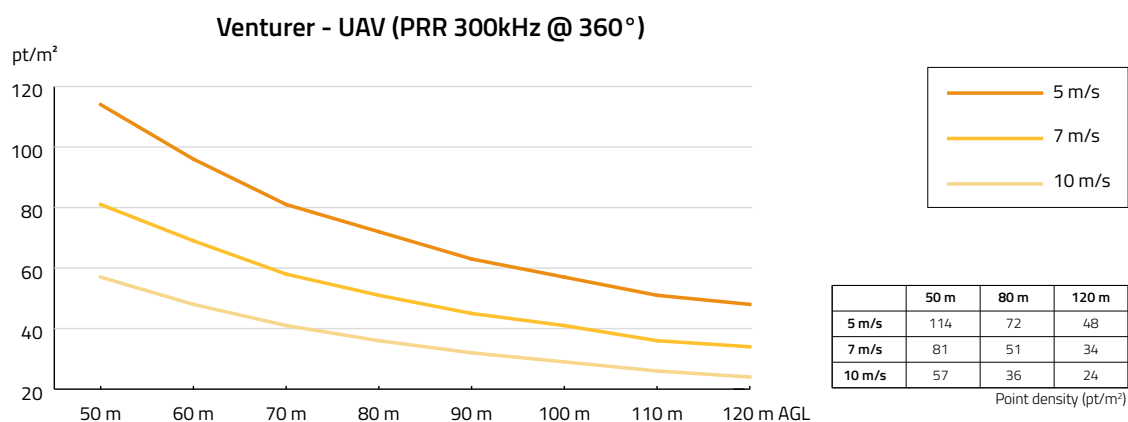
Visualize, inspect, refine your data quality, enrich your data with classification and color, and unlock more export features.

● CloudStation Ultimate

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

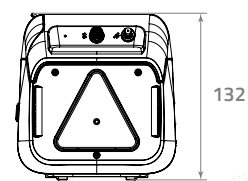
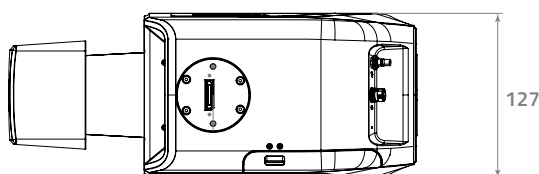
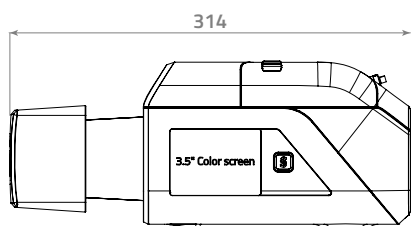


Typical mission parameters.



Dimensional drawings.

ⓘ Dimensions expressed in millimeters



Typical point cloud snapshots.



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- Flight height: 80 m AGL
- Speed: 5 m/s



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