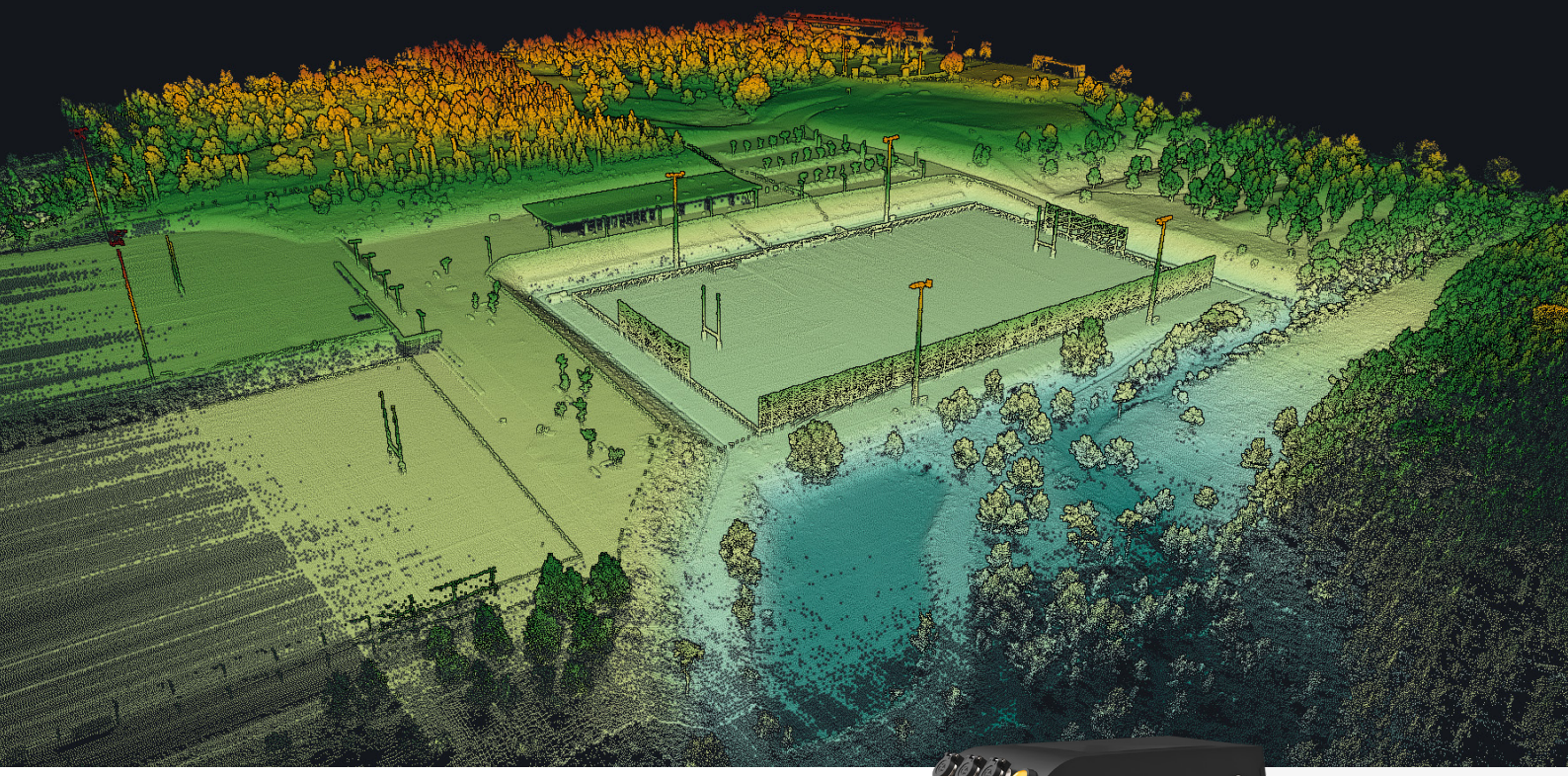
YellowScan | Designed to innovate.



YellowScan Vx15 series.

The long range & high precision UAV LiDAR solution

YellowScan Vx15 is the lightest system integrating the Riegl Mini-VUX.

Ideally suited for high precision surveys such as civil engineering.

Coupled with the DJI M300 it allows over 25min flight time maximizing your survey production.

Technologies inside

applanix | RIEGL

Key differentiators

- High precision point cloud
- Maximized range
- Calibrated intensity value

UAV Integrations

- Single rotor UAV
- Multirotor UAV

System integration options.

- **Vx15-100**
  Scanner :
  RIEGL miniVUX-1UAV

- **Vx15-300**
  Scanner :
  RIEGL miniVUX-3UAV

Package includes.

✓ **Hardware:**

- YellowScan Vx15-100 or 300
- Rugged pelicase
- 2 Batteries
- GNSS antenna and cable
- 2 USB flash drives
- Documentation

✓ **Services:**

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

✓ **Software:**

- Applanix POSPac UAV, to post-process GNSS and inertial data for highest accuracy
- YellowScan CloudStation Essential to generate, visualize, inspect, and export your data

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⊕ **Optional:**

- Stand-alone mounting bracket for DJI M300/600
- Mounting bracket with single Sony α6000 camera for DJI M600
- Mounting bracket with dual Sony α6000 camera for DJI M600
- Mounting bracket with Micasense Altum camera
- CloudStation Pro: refine and improve your data quality, with more export options
- Warranty and technical support extensions

Technical specifications.

Laser scanner	RIEGL miniVUX-1 or miniVUX-3 UAV
GNSS inertial solution	Applanix APX-15 UAV
Precision [1] [3]	1 cm
Accuracy [2] [3]	5 cm
Typ. flight speed	5 m/s
Typ. flying height	80 m
Max. rec. flying height	100 m
Laser range	Up to 170 m
Laser wavelength	905 nm
Max. data generated [4]	1 500 000 points/sec
Echoes per shot	Up to 5
Scanning frequency	Up to 100 Hz
RGB camera	Optional
Weight	2.4 kg (5.3 lbs) batt. excl.
Size	L 353 x W 106 x H 149 mm
Autonomy	1.5 hour typ.
Power consumption	25 W
Operating temperature	-10 to +40 °C

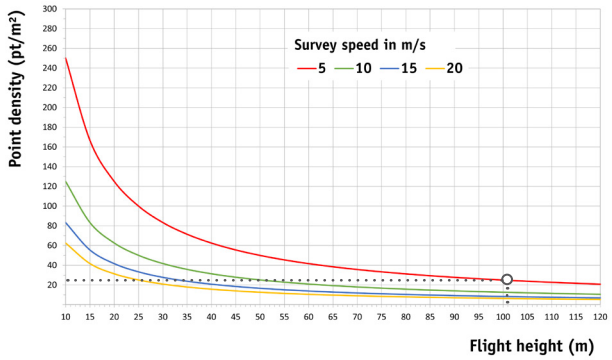
Vx15-100	**100 kHz**
Shots per second	Up to 100 000
Scanner field-of-view	360°
Typ. flying height natural targets ≥ 20%	100 m
Point density @50m AGL, 5m/s, 90°FOV	50 pts/sqm

Vx15-300	**100 kHz**	**200 kHz** over 360°	**200 kHz** over 180°	**300 kHz**
Shots per second	100k over 360°	200k over 360°	100k over 180°	100k over 120°
Scanner field-of-view	360°	360°	180°	120°
Typ. flying height natural targets ≥ 20%	100 m	85 m	100 m	100 m
Point density @50m AGL, 5m/s, 90°FOV	50 pts/sqm	100 pts/sqm	100 pts/sqm	150 pts/sqm

(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.
(3) One sigma @ 50 m, nadir.
(4) Theoretical maximum points of the YellowScan Vx15-300 with all shots yielding the maximum number of echoes. May vary depending on flight and survey conditions, and surveyed environment.

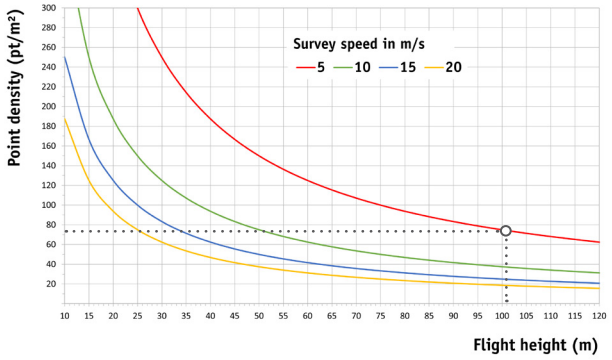
Typical mission parameters.

Vx15-100



LiDAR unit	Vx15-100
Flight speed	5m/s
Flying height	100m AGL
Point density	25pts/sqm

Vx15-300

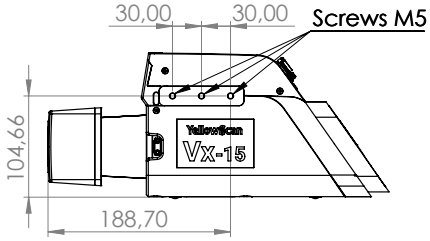


LiDAR unit	Vx15-300
Flight speed	5m/s
Flying height	100m AGL
Point density	75pts/sqm

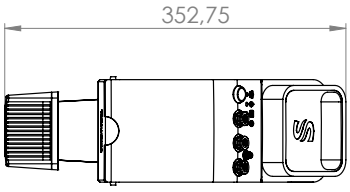
Dimensional drawings.

ⓘ Dimensions expressed in millimeters

Side view



Top view



Front view