



# 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.





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



- Single rotor UAV
- Multirotor UAV



## Technical specifications.

	Max. data generated (4)	RIEGL miniVUX-1 or miniVUX-3 UAV	<b>Laser scanner</b> RI
Up to 5	Echoes per shot	Applanix APX-15 UAV	GNSS inertial solution
Up to 100 Hz	Scanning frequency	1 cm	Precision (1)(3)
Optional	RGB camera	5 cm	Accuracy (2) (3)
2.4 kg (5.3 lbs) batt. excl.	Weight	5 m/s	Typ. flight speed
L 353 x W 106 x H 149 mm	Size	80 m	Typ. flying height
1.5 hour typ.	Autonomy	100 m	Max. rec. flying height
25 W	Power consumption	Up to 170 m	Laser range
-10 to +40 °C	Operating temperature	905 nm	Laser wavelength
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	System integra	100 kHz	Vx15-100
		100 kHz Up to 100 000	
			Vx15-100
		Up to 100 000	Vx15-100 Shots per second
tion options.	System integra	Up to 100 000 360° 100 m	Vx15-100  Shots per second  Scanner field-of-view  Typ. flying height

Vx15-300	100 kHz	200 kHz <sup>over 360°</sup>	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
<b>Point density</b> @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.

## 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