

YellowScan Vx15 series.

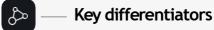
The long range & high precision UAV LiDAR solution

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



System integration options.



Vx15-100
Scanner:

RIEGL miniVUX-1UAV



Vx15-200

Scanner : RIEGL miniVUX-2UAV



Vx15-300

NEW

Scanner: RIEGL miniVUX-3UAV

Package includes.

Hardware:

- YellowScan Vx15–100 / 200 / 300
- Rugged pelicase
- Charger and 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, to generate and visualize your georeferenced point cloud

+ 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
- Warranty and technical support extensions

- YellowScan LiveStation: the real-time in-flight LiDAR monitoring kit (includes software and 2 radio-modems)
- Strip Adjustment module: a point cloud enhancing toolbox for the CloudStation software
- Terrain module: export classified point clouds from the CloudStation software

Technical specifications.

Precision(1)(3)	1 cm
Accuracy ^{(2) (3)}	5 cm
Echoes per shot	Up to 5
Laser wavelength	905 nm
GNSS-Inertial solution	Applanix APX-15 UAV

Weight	2.6 kg (5.7 lbs) battery included		
Size	L 35 xW 11 xH 17 cm		
Autonomy	1.5 hours typ.		
Power consumption	25 W		
Operating temperature	−20 to +40 °C		

Vx15-100	100 kHz	
Shots per second	100k over 360°	
Scanner field of view	360°	
ARRITATION Elight Alkitude AGL	100m	
Average Goisin de 1991 y OV	50pts/sqm	

Vx15-200	100 kHz	200 kHz ^{over 360°}
Shots per second	100k over 360°	200k over 360°
Scanner field of view	360°	360°
Operating Flight Altitude AGL natural targets ≥ 20%	100m	85m
Average point density @50m AGL, 5m/s, 90°FOV	50pts/sqm	100pts/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°
Operating Flight Altitude AGL natural targets $\geq 20\%$	100m	85m	100m	100m
Average point density @50m AGL, 5m/s, 90°FOV	50pts/sqm	100pts/sqm	100pts/sqm	150pts/sqm

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

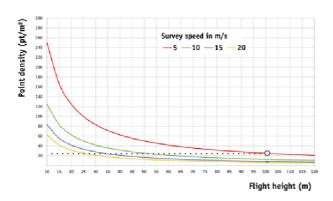
⁽²⁾ Accuracy is the degree of conformity of a measured position to its actual (true) value.

⁽³⁾ One σ @ 50 m, nadir.

⁽⁴⁾Reduced power.

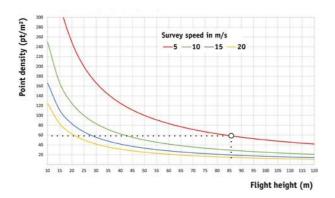
Typical mission parameters.

Vx15-100

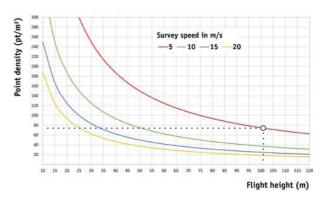


LIDAR UNIT Vx15-100	FLIGHT SPEED 5m/s	ALTITUDE 100m	POINT DENSITY 25pts/sqm
LIDAR UNIT Vx15-200	FLIGHT SPEED 5m/s	ALTITUDE 85m	POINT DENSITY 60pts/sqm

Vx15-200



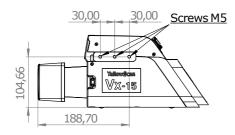
Vx15-300



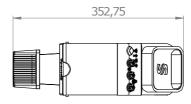
Dimensional drawings.

i) Dimensions expressed in millimeters

Side view



Top view



Front view



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