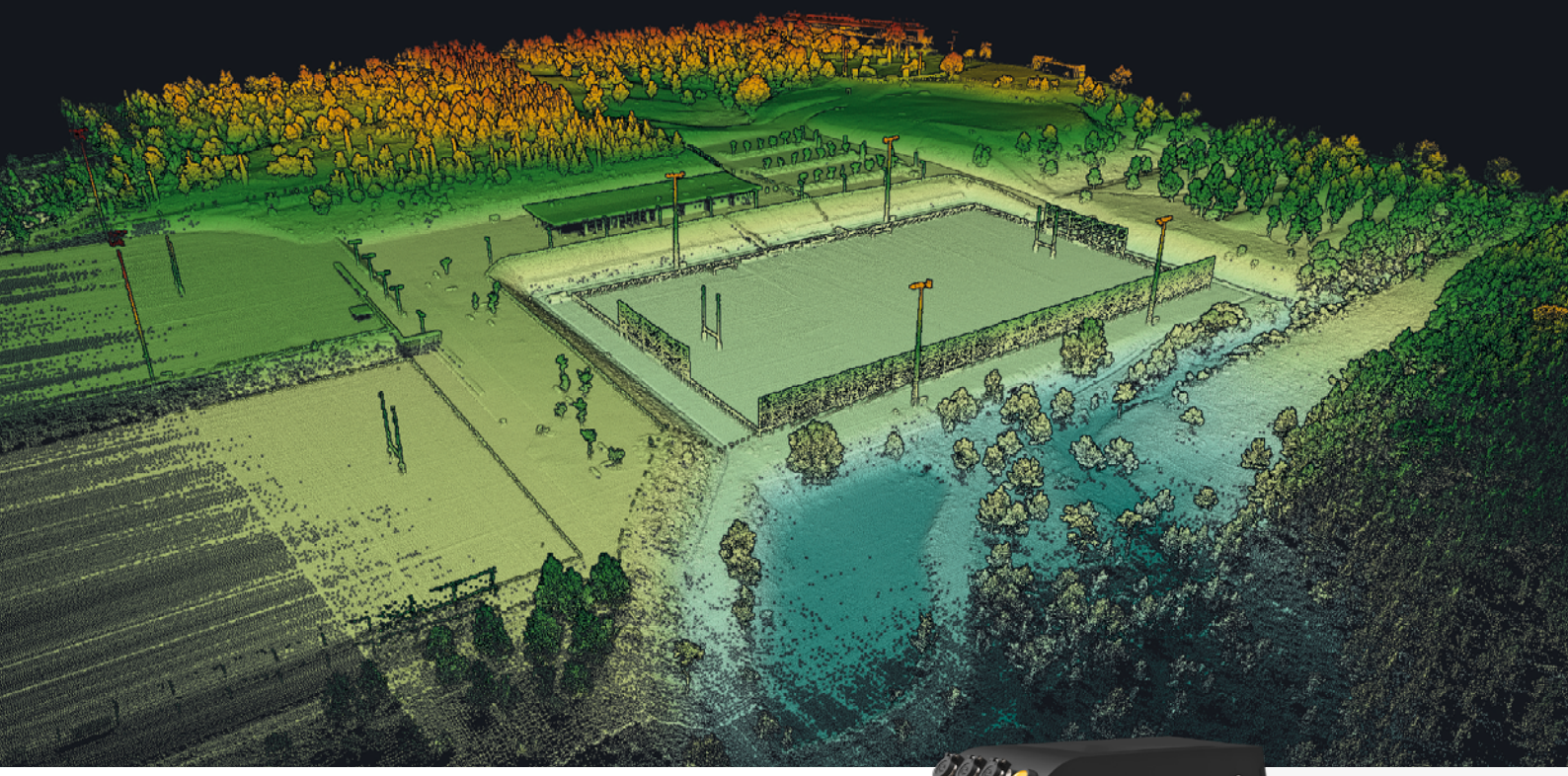
YellowScan | Designed to Innovate




# 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

- Multirotor drones
- Helicopter drones

# System integration options.

### Vx15-100

**Scanner :**
RIEGL miniVUX-1UAV

### Vx15-300 NEW

**Scanner :**
RIEGL miniVUX-3UAV

# Package includes.

**Hardware:**

- YellowScan Vx15-100 / 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

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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
- 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 x W 11 x H 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° |
| **Operating Flight Altitude AGL** natural targets ≥ 20% | 100m |
| **Average point density** @50m AGL, 5m/s, 90°FOV | 50pts/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 ≥ 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.

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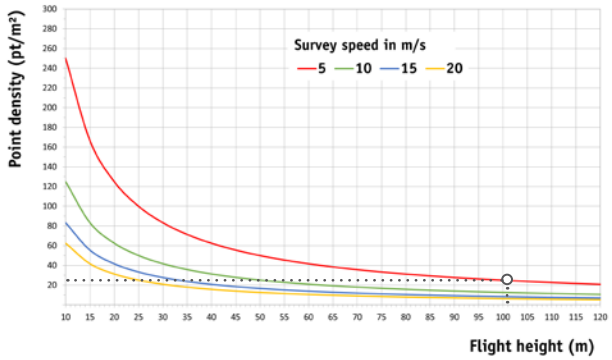
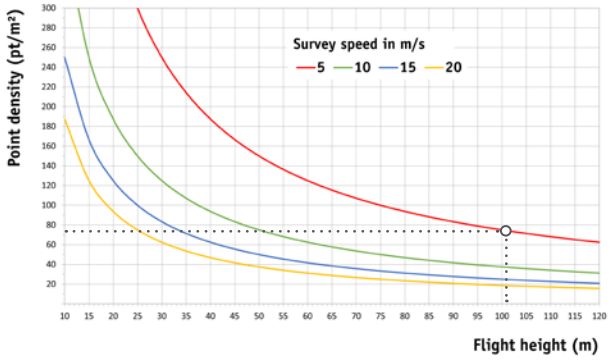
# Typical mission parameters.

## Vx15-100




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

## Vx15-300

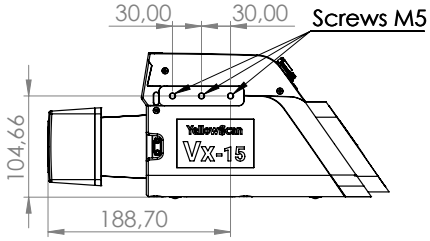



| | |
|---|---|
| **LiDAR unit** | Vx15-300 |
| **Flight speed** | 5m/s |
| **Flying height** | 100m AGL |
| **Point density** | 75pts/sqm |

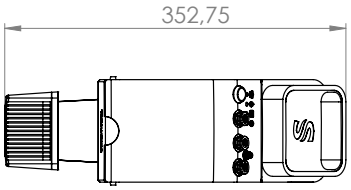
# Dimensional drawings.

ⓘ Dimensions expressed in millimeters

## Side view




## Top view




## Front view