



Quattro Elementi  
www.serradrones.mx

# LiDARit ONE



Point Cloud RMSE @ 50m	Recommended Scan Height	Weight (with photogrammetry tool)
<b>50 mm</b>	<b>70 m</b>	<b>1,950 gr</b>
Max Range @ Reflectivity	Pulses per second	Echoes
<b>70 m @ 10%</b>	<b>420,000</b>	<b>3</b>

## Multi Platform



## LIVE THE LiDARit ONE EXPERIENCE.

### IDEAL ENTRY LEVEL PLATFORM

- ✦ LiDARit One is ideal first step in LiDAR world and get high quality geospatial information.
- ✦ Excellent performance / low budget.
- ✦ Easy to use and transport.
- ✦ Up to 35 Ha per flight with M600.\*

\*Using TB48s- No high altitude above sea level - No strong winds

### POWERFUL ENTERPRISE SOLUTIONS FROM LIDARIT

- ✦ LiDARit Manager included: process data in record time - saving time and money
- ✦ Annual maintenance program
- ✦ Hot swap available when repairs needed
- ✦ Enterprise warranty options with 1 or 2 crashes repaired or replaced annually

Our systems work on projects of:

Agriculture

Forestry

Mining

Roads

Power lines

Survey



Quattro Elementi  
www.serradrones.mx

## Platform

Range:	70m(@10%)
Recommended Scan Height:	70m
Recommended Distance between lines:	70m
Point Cloud RMSE @ 50m:	50mm

## Lidar Sensor

Laser:	8 Channels
Number of echoes:	3
Scanning method:	Mechanical rotation
Laser class:	Class 1
Pulses:	420k/s
Field of view:	360°*20°
Rotation rate:	20Hz
Resolution:	0.0686*2.5
Point density at 70m (flat terrain):	81p/m <sup>2</sup>

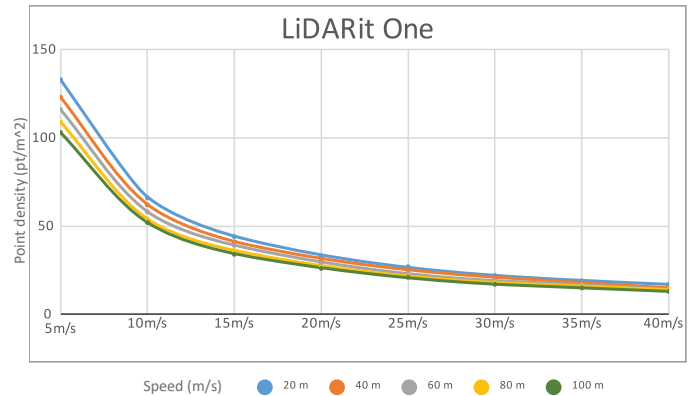
## Mechanical/ Electrical/ Operational

Voltage main port:	19.5V
Voltage secondary port:	15-30V
Weight (with photogrammetry tool):	2000gr
Power Consumption:	among 30 and 50W

## Navigation system

Constellation support:	GPS, GLONASS, BEIDOU, GALILEO
Support Alignment:	Static, Kinematic, dual antenna
Operation mode:	Real-time and postprocessing
Accuracy Position:	1cm + 1ppm RMS horizontal
Heading RMSE:	0,035°
Position accuracy:	± 1cm
Roll and pitch accuracy:	0,012°
Data rate:	200 Hz

## Point density at certain speed



# LiDARit Manager

## Processing APP

Complexity level:	2 clicks
Time to get final deliverables:	Three days*
Completely confidential:	Highest level of security

\*For 50ha projects.