REDTAIL
LiDAR SYSTEMS

The RedTail LiDAR System – Scanning the way it was meant to be.™

Applications

CONSTRUCTION AGRICULTURE INFRASTRUCTURE RESOURCE MANAGEMENT

HIGH RESOLUTION IMAGES
The RedTail LiDAR System is designed to create high-resolution point clouds. The superior resolution provided by the RedTail LiDAR System allows customers to perform enhanced data analytics.

HIGH POINT DENSITY
The RedTail LiDAR System transmits all laser pulses to the ground to optimize point cloud density. LiDAR points are evenly spaced to provide superior mapping capability.

SUPERIOR RANGE
The RedTail LiDAR System allows customers to collect point clouds at increased altitudes to enhance operations in diverse flight environments.

EASE OF USE
The RedTail LiDAR System is designed to be easy and intuitive to use. We've simplified all aspects of point cloud data collection – from drone integration to data analysis.

Phone **304.306.2396**   Email **sales@redtaillidar.com**   **Learn more at** redtaillidar.com

About the **RedTail LiDAR System**

RTL-400 Specifications

General Characteristics	
	• Weight: 4.7 lbs
	• Operating Temperature Range: -10 to 60 deg C
	• Reconfigurable Scanning on the Fly
	• Laser Wavelength: 1550 nm
	• Beam Divergence: 1.5 mrad
	• Field of View: 30 x 30 degrees

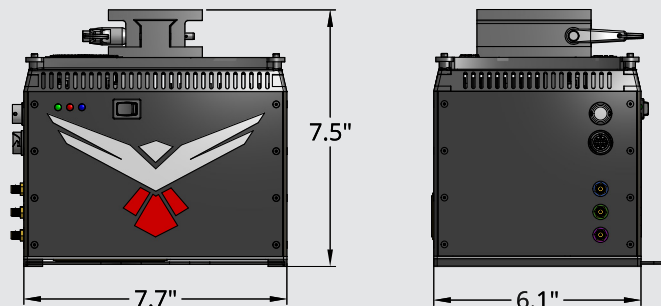| Performance Characteristics	
	• Max Range 20% Reflective (e.g., trees, grass): 100 meters
	• Max Range 80% Reflective: 120 meters
	• Range Accuracy: 15mm
	• Range Precision: 10mm

System Operating Parameters	
	• Line Scans/Second: 400
	• Max Pulse Repetition Rate: 400 kHz
	• Max Returns per Pulse: 5
	• Max Measurement Rate: 1 million (measurements/second on ground)

Components	
	• Scanning Mechanism: Microelectromechanical Mirror (MEMS)
	• IMU/GNSS: Applanix APX-18

Dimensions

7.5"
7.7"
6.1"

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