

DISCOVERY™ – PRODUCT SPECIFICATION

Smart. Accurate. Affordable LiDAR Technology

DRONE

- Compact, industrial-grade platform with everything you need to get started, already in the box!
- Trimble APX-15 UAV GNSS onboard
Applanix SmartBase™ included
Trimble CenterPoint® RTX enabled
System calibrated, prior to delivery
- QGC Cross-platform flight planning
(PC, Tablet, Smartphone)
- Fully automated flight:
preflight calibration, takeoff, landing
- Intelligent flight orientation system
GPS hold
Return to Home (RTH)
Siren to locate, if down
- Flight endurance: *20 minutes with swappable batteries*
- Max Area Coverage: *on (1) set of batteries – 70 acres*
- No tools required *for deployment or take-down*
- Data storage – 256GB
- IP-45 rated

LIDAR SENSOR 32-CHANNEL

- Range resolution: *0.1"*
- Generates 530K pts/sec
- Scanner max height: *196 feet (60m)*
- Absolute accuracy @ 100ft – up to 3"
- Field of View:
Horizontal: 45°
Vertical: 360°
- Safety: *Class 1 eye-safe*
- IP-69 rated

FLIGHT SYSTEM

- Absolute horizontal & vertical accuracy @100ft: up to 3" without the use of ground control points
- Relative accuracy (point cloud): 2 – 3" (5cm – 7cm)
- Typical point cloud density at 65ft = 100 pts/SF
- Typical mission altitude: 65 – 196 feet
- Typical mission speed: 11mph – 22mph
- Flight range: 1.5 miles at mission speed
- Drone speed max: 22 mph

MECHANICAL

- Carbon-fiber frame and propellers
- Anti-collision lights (red/blue)
- Operating voltage: 22-25 V (24 V nominal)
- Operating temp. limit: 23 ° F to 120 ° F
- Weight: ~13 lbs
- Dimensions (flight mode): ~32in (l) x 32in (w)
- Dimensions (folded): ~22 in (l) x 14 in (w) x 9 in (h)
- Note:** *When folded, meets Airline carry-on standards*

CASE CONTENTS

- UAV Quadcopter
- Hand-held controller w/ USB charging cable
- Ground control system
- USB thumb drive (256GB) *pre-loaded w/ required software*
- Propellers – 1 set (4)
- Batteries – 1 set (2), plus 2 spares
- Battery charger
- Documentation

MANUFACTURED IN TYLER, TEXAS, U.S.A.

PARTS SOURCED FROM U.S. VENDORS

**For More Information:**Contact us at sales@smartdrone.us
1-888-708-8818www.smartdrone.us