

# NextCore RN50

## TECHNICAL SPECIFICATIONS

Recommended UAV: DJI M600 Pro

### SPECIFICATIONS

**Absolute Accuracy:** < 50mm RMSE @ 50m Range

**PP Attitude Heading RMS Error:** 0.03° IMU

**Payload Weight:** 1.8KG

**Payload Dimension:** 16L x 12W x 23H (cm)

**M600 Mounting Kit Weight:** 0.6KG

**M600 Mounting Kit Boom Span:** 1.6M

**Dimensions:** 29 L x 14 W x 22 H (cm)

**Laser Range:** >150 m @ 80% Reflectivity

**Flight time on M600:** 23 minutes (on M600 with TB48s)

**Scan area in one flight:** 50 hectares\*

\*on M600 with TB48 @50m @50m line spacing

### LiDAR SENSOR

**Laser Properties:** Class 1 (eye safe), 905 nm

**Field of Range:** 20° Vertical / 360° Horizontal FOV

**Number of Returns:** 3

**Dimension in LiDAR Sensor:** 1.0 m / 150 m

**Number of Lasers/Planes:** 8

**RMS Ranging Error:** 30 mm

**Recommended Scanning Height:** AGL 20 - 60 m

**Scan Rate:** 420k shots/s, up to 1.26M points/s

### NEXTCORE FUSION SYSTEM REQUIREMENTS

**Operating System:** Windows 10

**RAM:** 4 GB (min), 32 GB Recommended

**Hard Drive Space:** 500MB (min)

**Average Post-Processing Time:** 3 times flight time