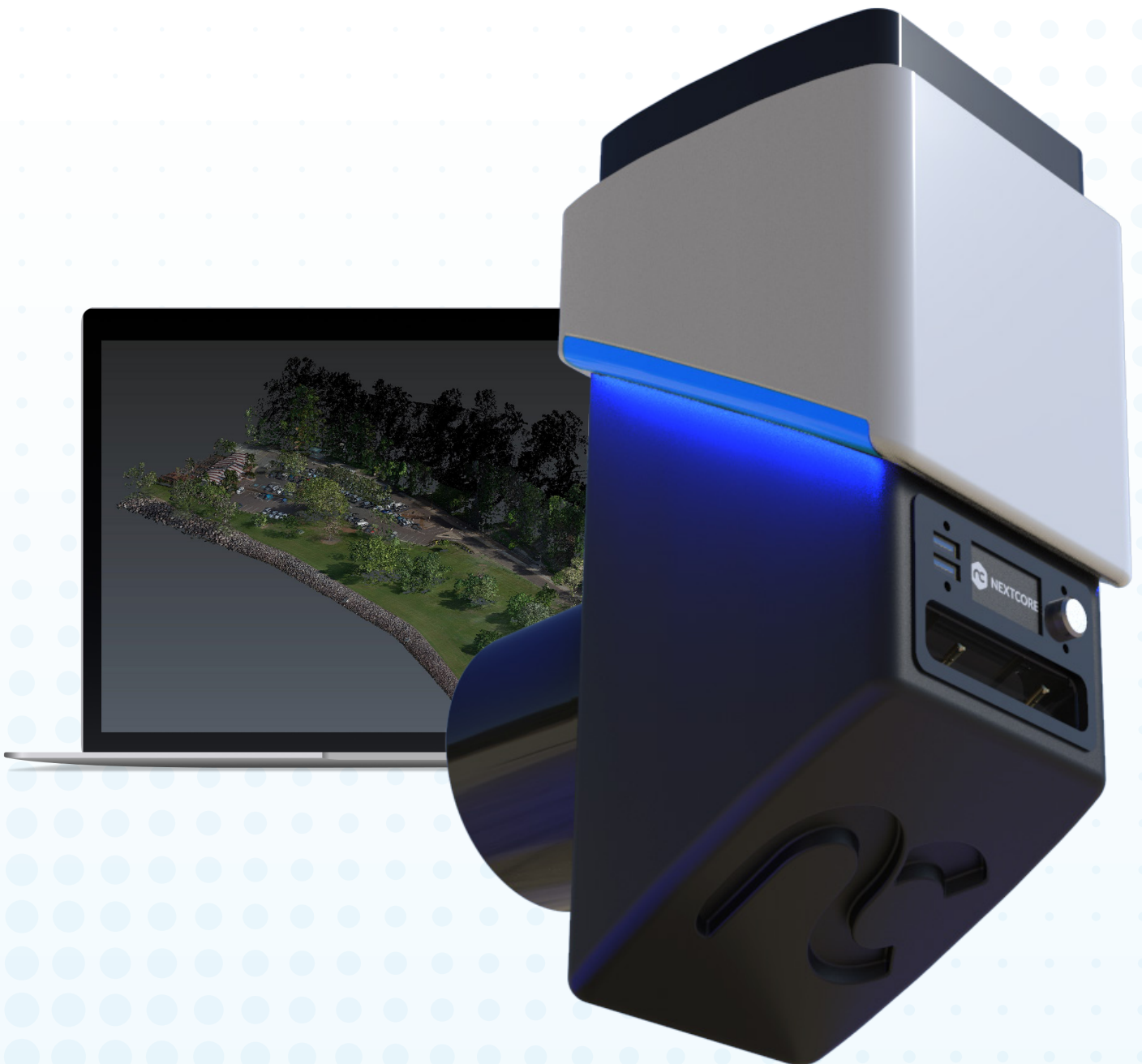




Built for simplicity. Tested for durability.

Ultimate Aerial Mapping Turn-Key Solution



Nextcore RN100

A high-performance system for steep terrain requiring increased altitude above ground level

Accurate to 50mm

Lightning fast cloud based processing

Compatible with 3rd party RINEX ground stations

The only Drone LiDAR unit available with a 2 Year Warranty



Nextcore RN100 Workflow

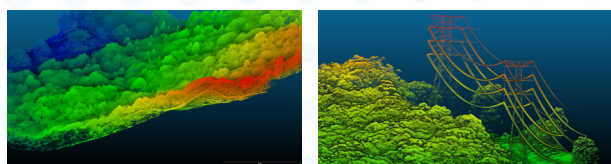
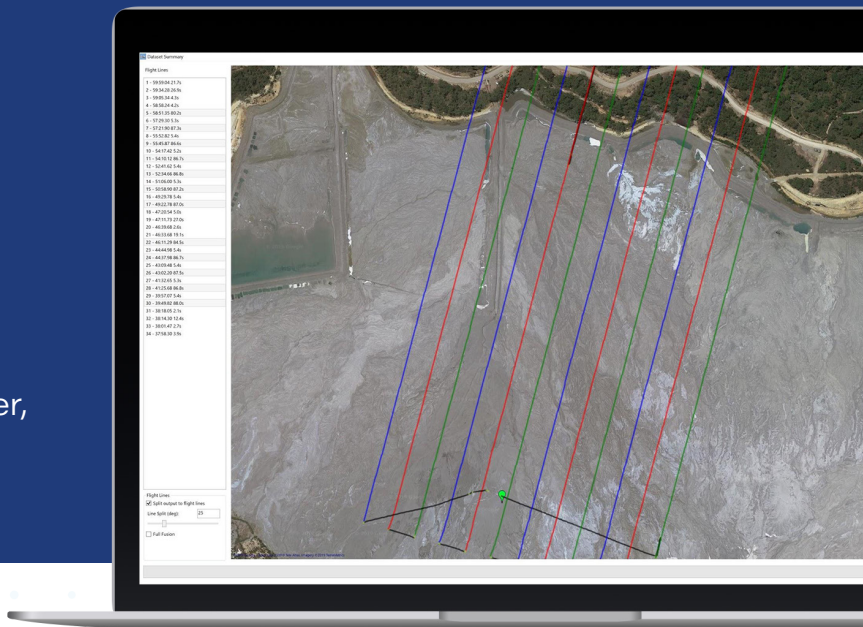






Nextcore Fusion

Desktop and Cloud based Processing Software

Fast processing (3x flight time)

Select (flight lines, distance from scanner, point cloud density, flight line overlap)



-  Scan up to 80 Hectares in a single flight at 10 m/s
-  Designed specifically for the DJI m600
-  Superior canopy penetration
-  50mm RMSE

Truly Turn-Key

Nextcore is specifically designed to create perfect LiDAR point clouds, every time. No complicated software or convoluted workflows needed.

Cloud-Based Automated Post-Processing

Automated Cloud post-processing of Nextcore data removes the need for additional software and IT infrastructure to generate and manage LiDAR data.

Easily Integrated Across Drone Platforms

Nextcore is a self-contained data capturing tool.

Fast Data Turnaround

Automated QC and cloud-based post-processing allows the Nextcore system to have processed data ready for use, often before you're even back in the office.

Accessible LiDAR

Nextcore uses cutting-edge technology reducing the cost of capturing and processing high-quality spatial data.

Automated Capture of High Quality Spatial Data

Combining Nextcore with the flight planning app of your choice allows you to capture perfect spatial data at the push of a few buttons.



Technical Specifications

Recommended UAV: DJI M600 Pro

Specifications

Absolute Accuracy: < 50mm RMSE @ 100m Range

PP Attitude Heading RMS Error: 0.01° 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: 265 H x 155 L x 145 W (mm)

Laser Range: 200 m @ 80% Reflectivity

Operating Temperature Range: -20 to +55

Flight time on M600: 23 minutes (with TB48s)

Scan area in one flight: 80 hectares*

*on M600 with TB48 @100m AGL @80m 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 / 200 m

Number of Lasers/Planes: 8

Recommended Scanning Height: AGL 20-100m

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



Nextcore

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