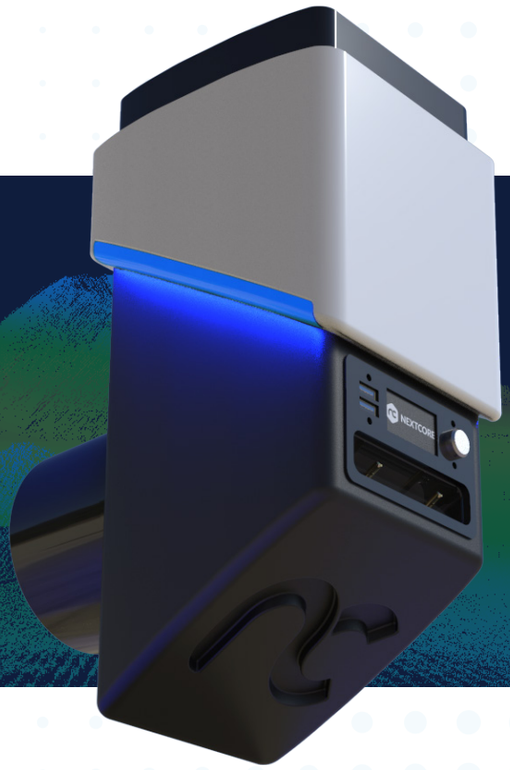
Nextcore

RN Series LiDAR

The Nextcore RN Series is an affordable Lidar unit designed to meet the requirements of the worlds surveyors, miners, foresters and environmental scientists. Its robust exterior combined with a simple interface produces powerfully accurate point clouds in record time. Nextcore comes with its own user-friendly processing software minimising costs and making exports simple.



FLY

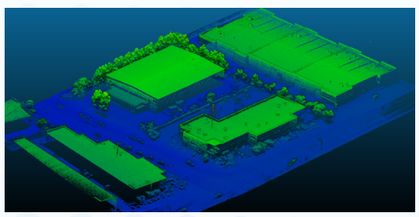
The Nextcore RN series automatically calibrates during flight meaning you can head straight to your mission. Cover up to 80 hectares (198 acres) in a single flight.

PROCESS

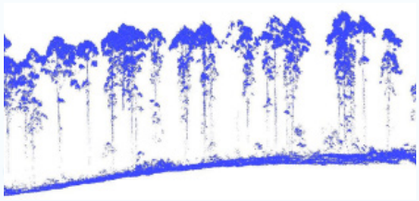
NextCore Fusion software is included in your RN series payload. Control point cloud parameters with the click of a button and process in an instant.

EXPORT

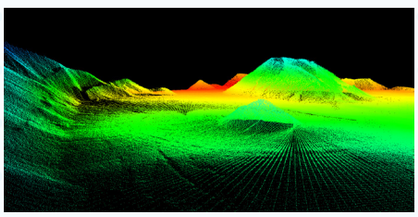
Once processed your *.laz file is ready to go. Your flight lines are automatically included as one and multiple flights during your day can be batched for processing.



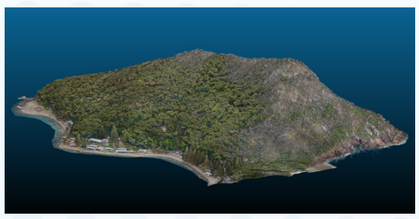
Surveying



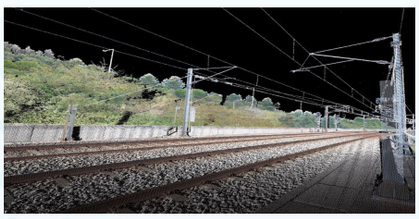
Forestry



Mining



Environmental



Infrastructure

Telecommunications

www.nextcore.co

Nextcore RN100

Capable of increased altitude and improved scanning time in the same compact design as the RN50. Especially suited to steep, rugged terrain with thick vegetation.

Efficient

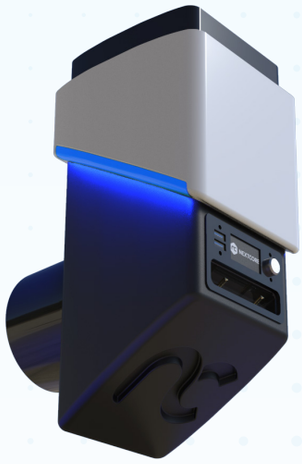
Scan up to 80 hectares in a single flight at 10/ms at 100m AGL.

Truly Turn-Key

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

Robust

With a 2 year warranty our unit has been proven in the field to survive real world applications.



Automated Processing

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

Accessible LiDAR

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

Base Station Friendly

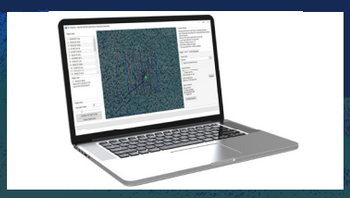
Our unit will work with any L1,L2 Base station or CORS Network that produces reliable GNSS data.

Mounting Kit Included

Our mounting kit is included and doesn't incur extra charges.

Sturdy Case

Our custom fitted case is designed to handle the rigors of survey field work.



Included Software

As one of the only companies using our own customised software you avoid ongoing fees and software costs.

Technical 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 +45
Flight time on M600: 23 minutes (with TB48s)
Scan area in one flight: 80 hectares

LiDAR Sensor
Lidar Unit: Quanergy M8 Ultra
Laser Properties: Class 1 (eye safe), 905 nm
Field of Range: 20˚ Vertical / 360˚ Horizontal FOV
Laser Range: 200 m @80% reflectivity
Number of Returns: 3
Number of Lasers/Planes: 8
Recommended Scanning Height: AGL 20-100m
Scan Rate: 420k shots/s, up to 1.26M points/s

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