Ferntech

New Zealand's Drone Experts

Who We Are

Ferntech NZ is a proudly locally-owned and operated business with branches in Auckland and Christchurch, and has sold and supported DJI Enterprise drones since 2013.

Our team of commercial drone specialists have a track record of delivering effective drone solutions and support across a wide range of industries and applications, connecting people with leading solutions.

We're excited to introduce this next generation of DJI Enterprise drones to New Zealand, and look forward to helping more local businesses get the most out of this new, groundbreaking drone technology.

What We Offer

Reliable Advice

Trusted Support

Specialist Service

Proven Solutions

DJI Commercial Drone Range

DJI Mavic 3 Enterprise

DJI Matrice 30

DJI Matrice 350 RTK

Benefits of DJI Mavic 3 & Matrice 350

Portable, easy to carry and deploy

Centimetre-level data thanks to its mechanical shutter and RTK capability

Covers 2 km^2 per flight, delivering a 5cm GSD

Real-Time Terrain Follow feature to ensure high-quality data capture in challenging and variable terrains

Multi-payload, multi-purpose solution, including Photogrammetry, LiDAR, and Thermal

Centimetre-level data thanks to its mechanical shutter and RTK capability

Covers 3 km^2 per flight, delivering 3cm horizontal and 5cm vertical accuracy without the need for GCPs

Supports Waypoint, Mapping, Oblique, and Linear Flight missions, as well as Terrain Follow or Smart Oblique for efficient data collection

DJI Mavic 3 Drones

DJI Mavic 3 Enterprise

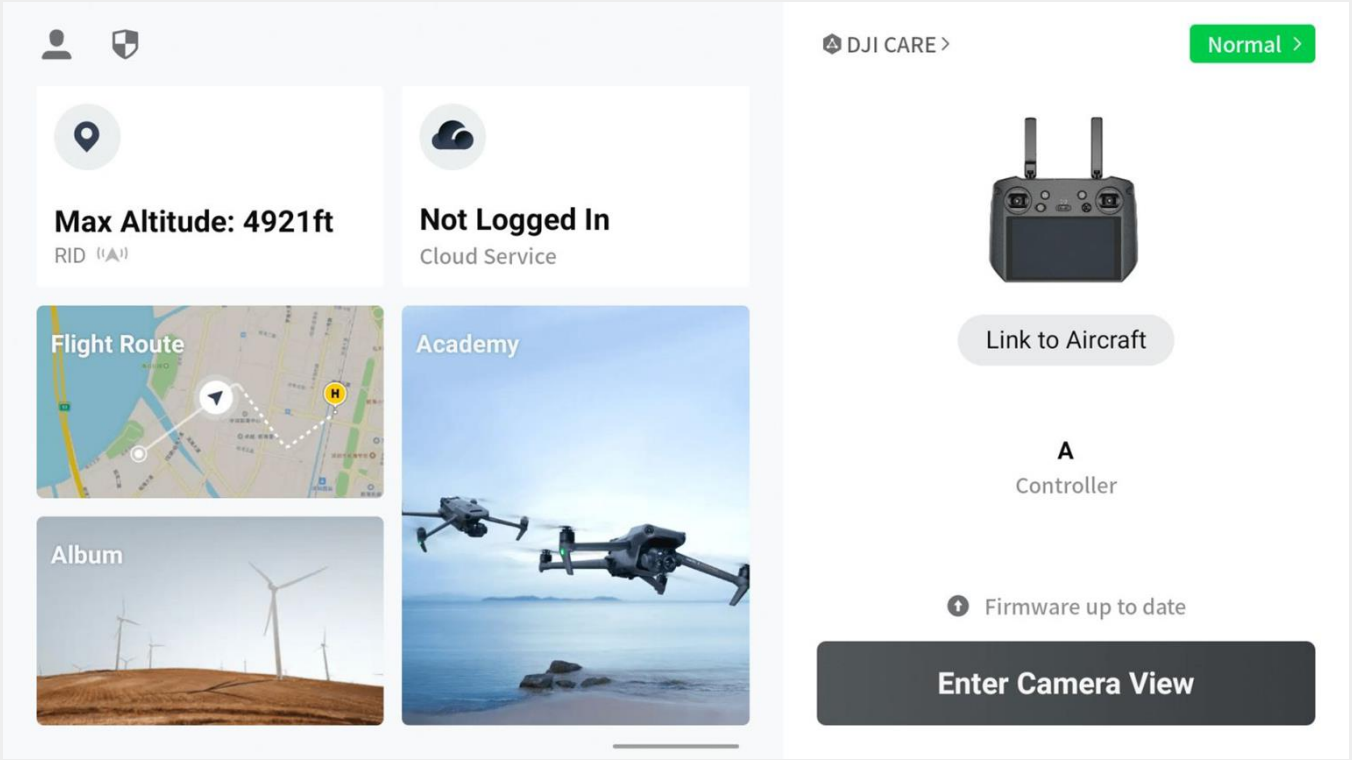
DJI Mavic 3 Thermal

DJI Mavic 3 Multispectral

DJI Mavic 3 Sensor Spec Comparison

	Mavic 3E (Wide)	Mavic 3T	Mavic 3M
Sensor	4/3-inch CMOS, 20MP	1/2-inch CMOS, 48MP	1/2.8-inch CMOS, 5MP
Image Resolution	5280×3956	8000×6000	2592×1944
Video Resolution	3840×2160	640×512	1920x1080
Frame Rate	30 fps	30 fps	30 fps
Lens FOV	84˚	61˚	73.91˚ (61.2˚ x 48.10˚)
Aperture	f/2.8-f/11	f/1.0	f/2.0
Focus	1 m to ∞	5 m to ∞	Fixed Focus
Zoom	56x hybrid zoom	Up to 28x digital zoom	N/A

Mission Planning/Application



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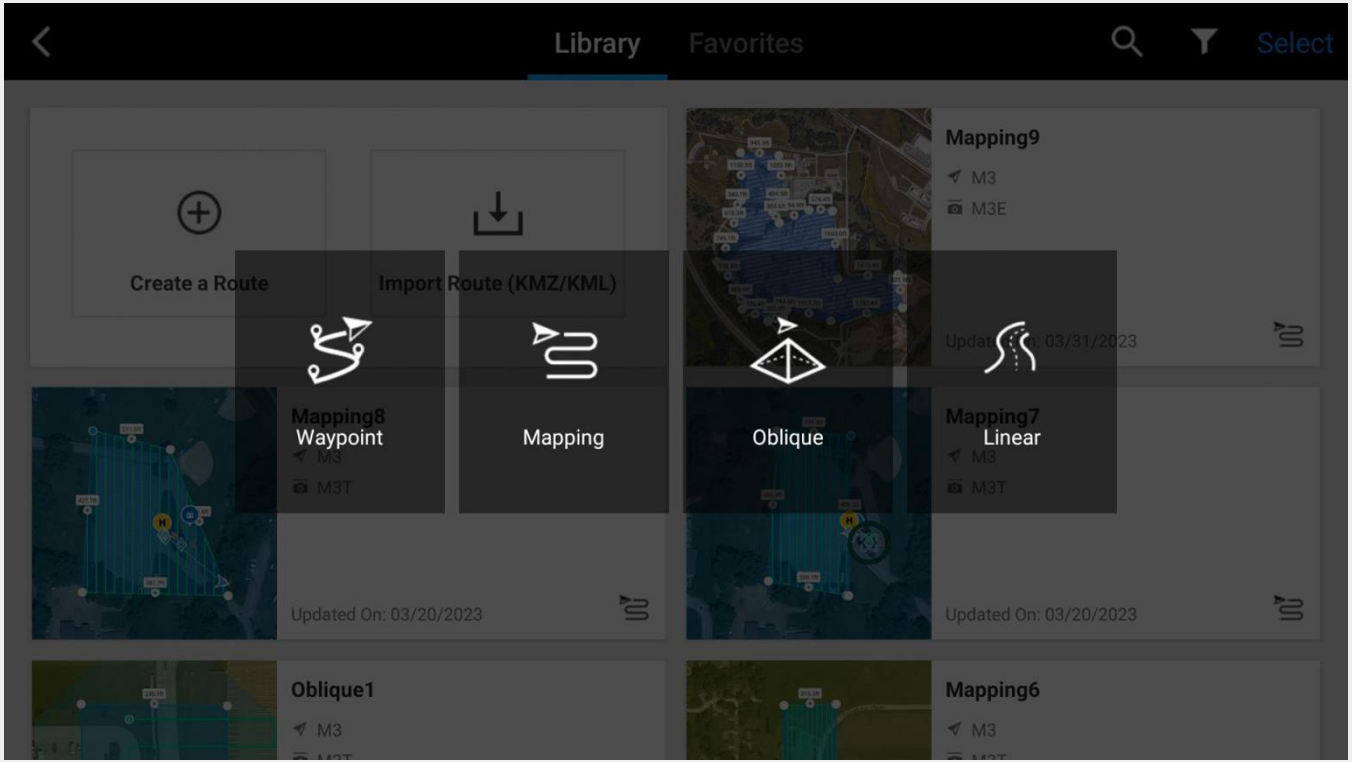

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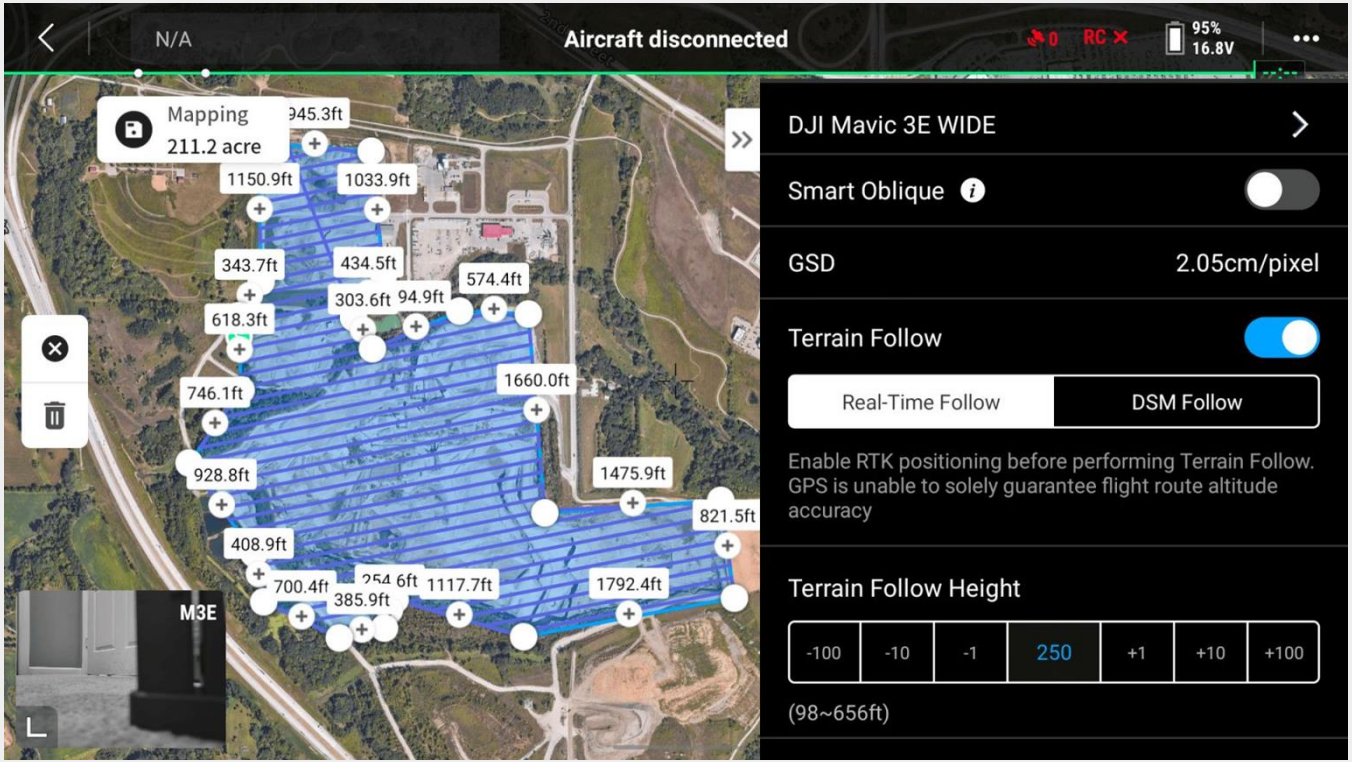

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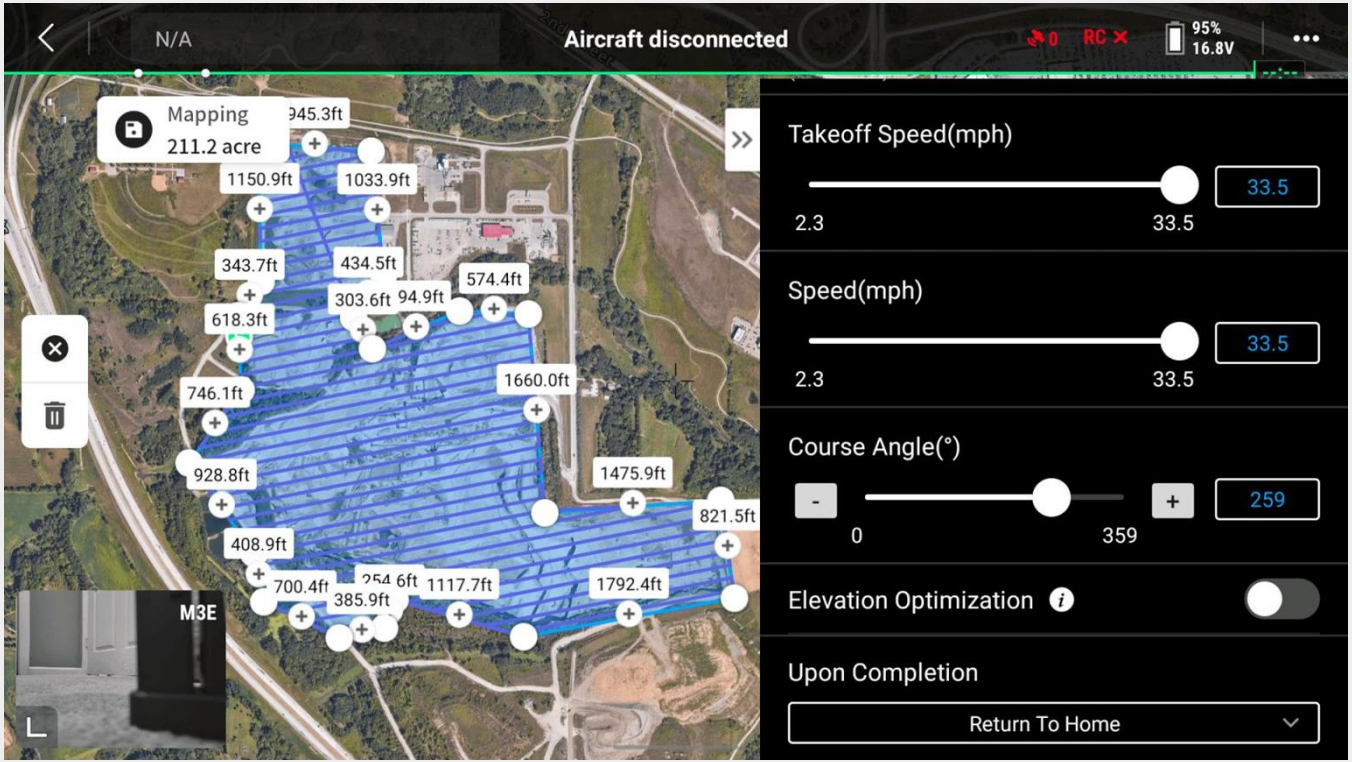

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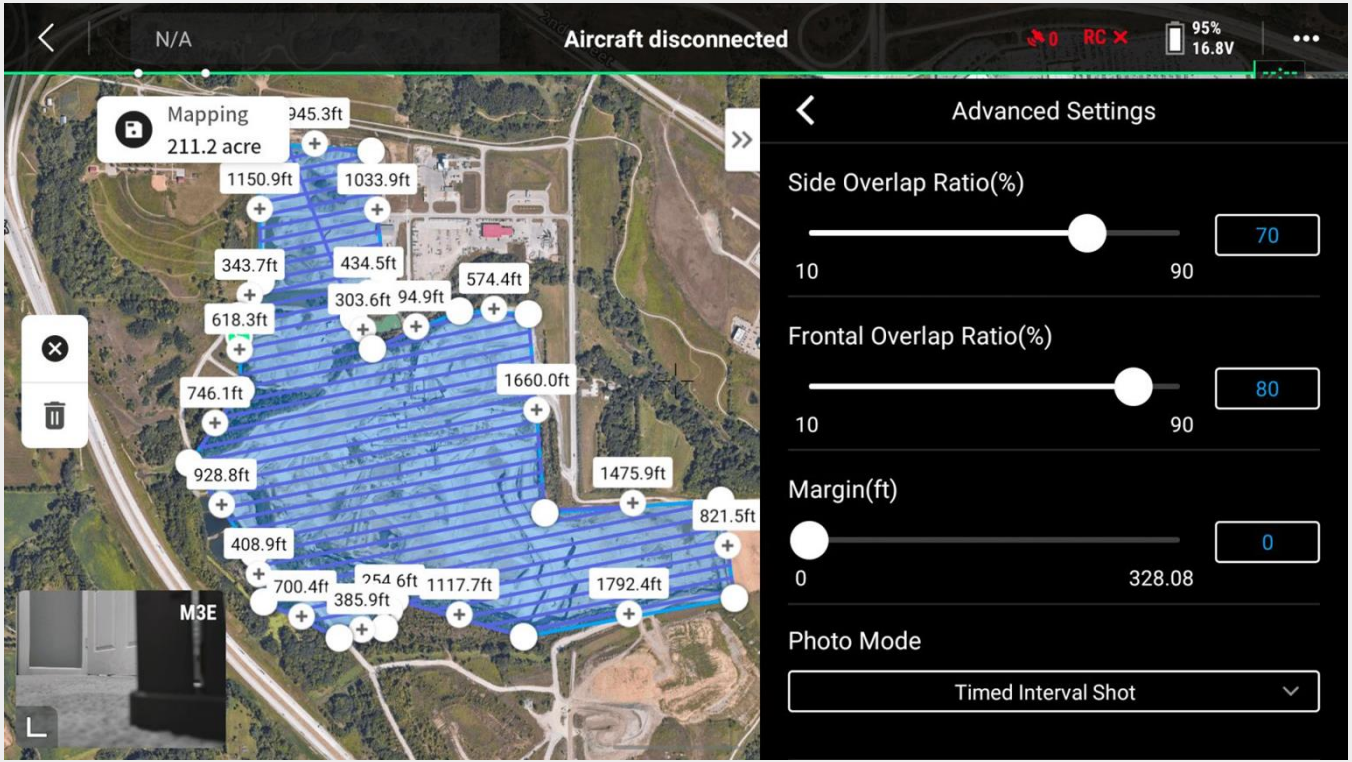
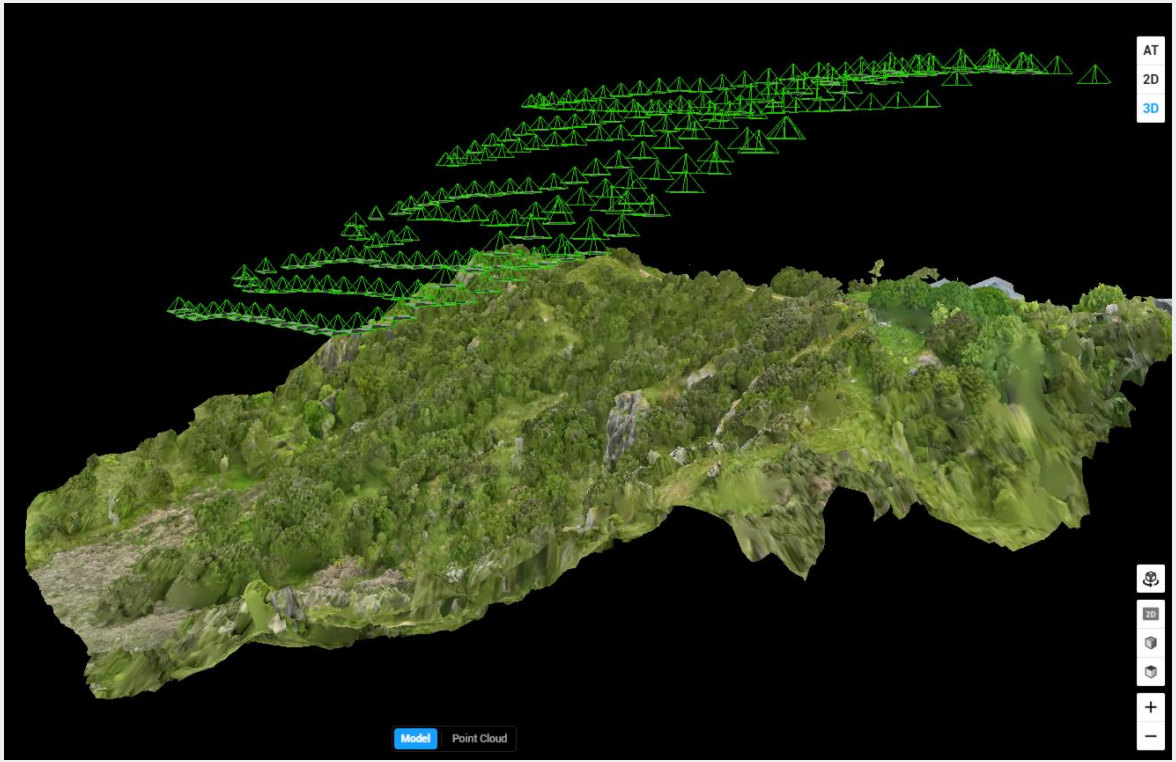


Terrain Follow

Terrain Follow



DJI Mavic 3 Multispectral

	RGB Camera
Sensor	4/3-inch CMOS, 20MP
Image Resolution	5280×3956
Video Resolution	4K: 3840×2160
Frame Rate	30 fps
Lens FOV	FOV: 84˚
Aperture	f/2.8 to f/11
Focus	1 m to ∞

	Multispectral Camera
Sensor	1/2.8-inch CMOS, 5MP
Green (G):	560 ± 16 nm;
Red (R):	650 ± 16 nm;
Red Edge (RE):	730 ± 16 nm;
Near infrared (NIR):	860 ± 26 nm;
Gain Range	1x-32x
Max Image Size	2592×1944

M3M vs. MicaSense/AgEagle

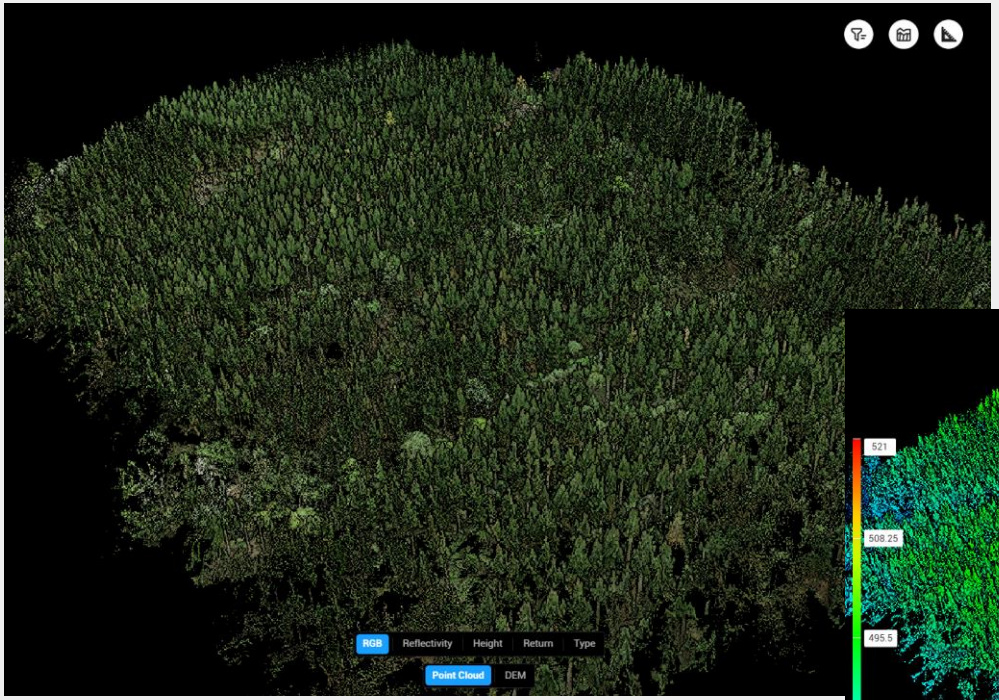
	M3M	Altum-PT
Sensor:	2592×1944 (5MP per band)	2064 x 1544 (3.2MP per MS band) 4112 x 3008 (12MP panchromatic band) 320 × 256 thermal infrared
Blue (B):	N/A	475 nm ± 32 nm
Green (G):	560 ± 16 nm;	560 nm ± 27 nm
Red (R):	650 ± 16 nm;	668 nm ± 14 nm
Red Edge (RE):	730 ± 16 nm;	717 nm ± 12 nm
Near infrared (NIR):	860 ± 26 nm;	842 nm ± 57 nm
Thermal:	N/A	FLIR LWIR thermal infrared 7.5 -13.5um

Benefits for Forestry

Pain Points	Advantages
✗ Traditional forest management involves on-foot or helicopter surveying, which are time-consuming and drain resources.	✓ Drones streamline data collection, offering a cost-effective, rapid, and accurate solution for forest and land assessment.
✗ Conventional forest survey outputs lack visual references or are low resolution, with limited scope and scale.	✓ Equipped with advanced cameras and LiDAR, drones excel at capturing detailed and accurate data.
✗ Collecting usable data in complex, heavily-vegetated, and remote forest areas is often difficult and dangerous.	✓ Automatic terrain follow allows you to easily fly above forested terrain, using LiDAR to penetrate the vegetation for comprehensive, reliable data collection.
✗ Extensive ground surveys or use of heavy machinery can have major negative impacts on the forest habitat.	✓ Drones offer environmentally-friendly data collection, minimising habitat disruption and soil disturbance.

DJI Zenmuse L2

Zenmuse L2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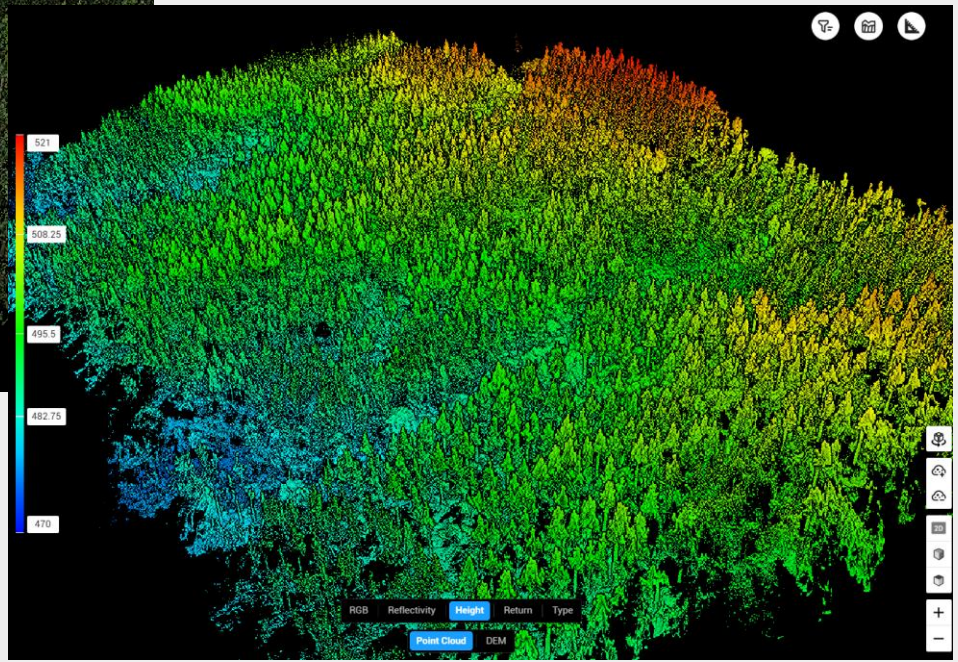
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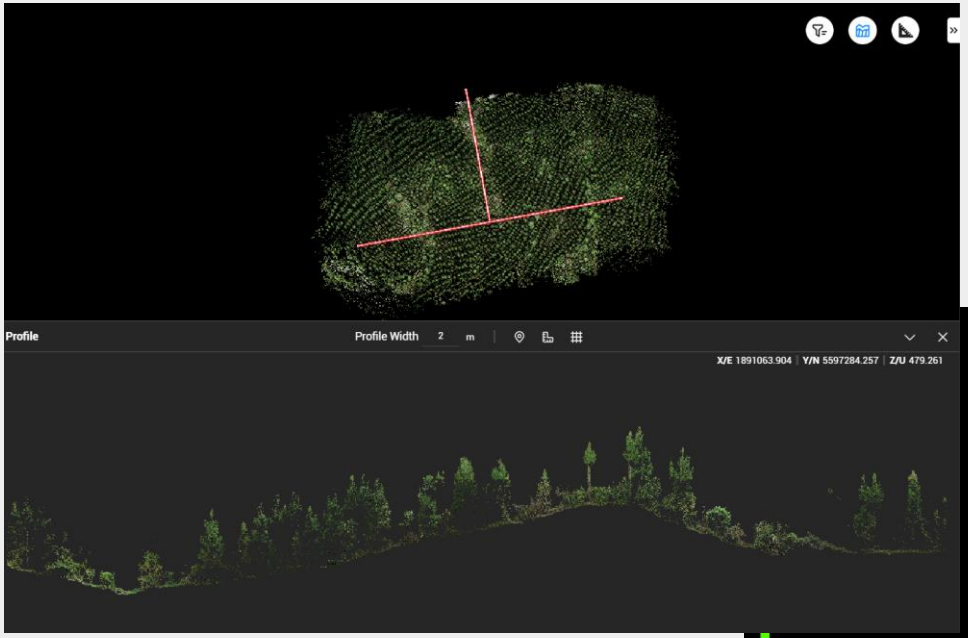
Zenmuse L2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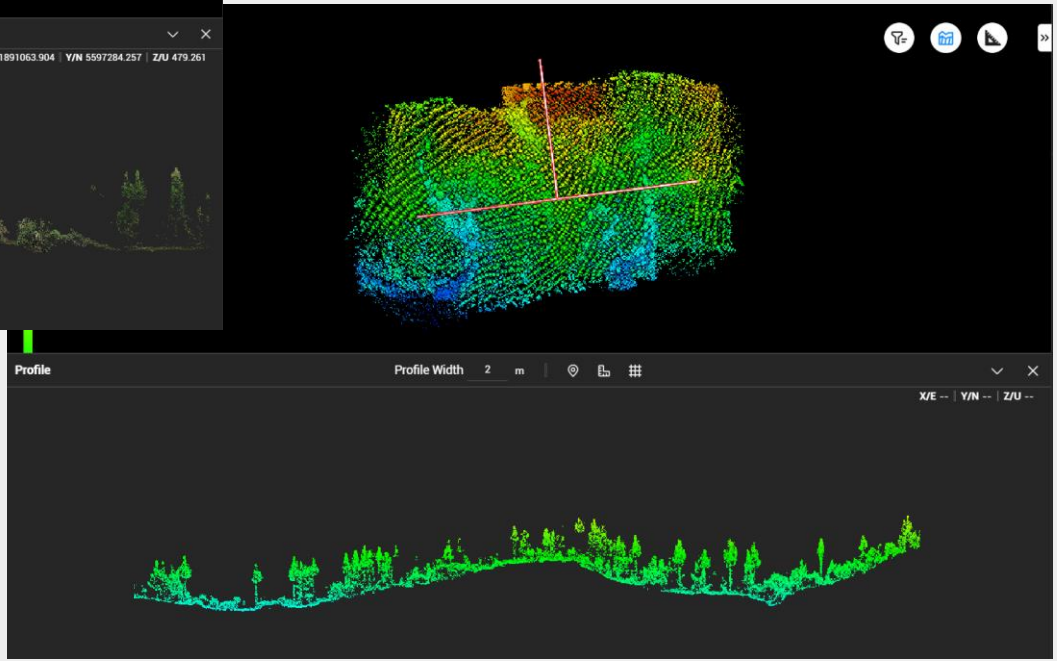
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Thank you for joining us!

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