



**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<sup>2</sup> 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<sup>2</sup> 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

	<b>Mavic 3E (Wide)</b>	<b>Mavic 3T</b>	<b>Mavic 3M</b>
<b><i>Sensor</i></b>	4/3-inch CMOS, 20MP	1/2-inch CMOS, 48MP	1/2.8-inch CMOS, 5MP
<b><i>Image Resolution</i></b>	5280×3956	8000×6000	2592×1944
<b><i>Video Resolution</i></b>	3840×2160	640×512	1920×1080
<b><i>Frame Rate</i></b>	30 fps	30 fps	30 fps
<b><i>Lens FOV</i></b>	84°	61°	73.91° (61.2° x 48.10°)
<b><i>Aperture</i></b>	f/2.8-f/11	f/1.0	f/2.0
<b><i>Focus</i></b>	1 m to ∞	5 m to ∞	Fixed Focus
<b><i>Zoom</i></b>	56x hybrid zoom	Up to 28x digital zoom	N/A

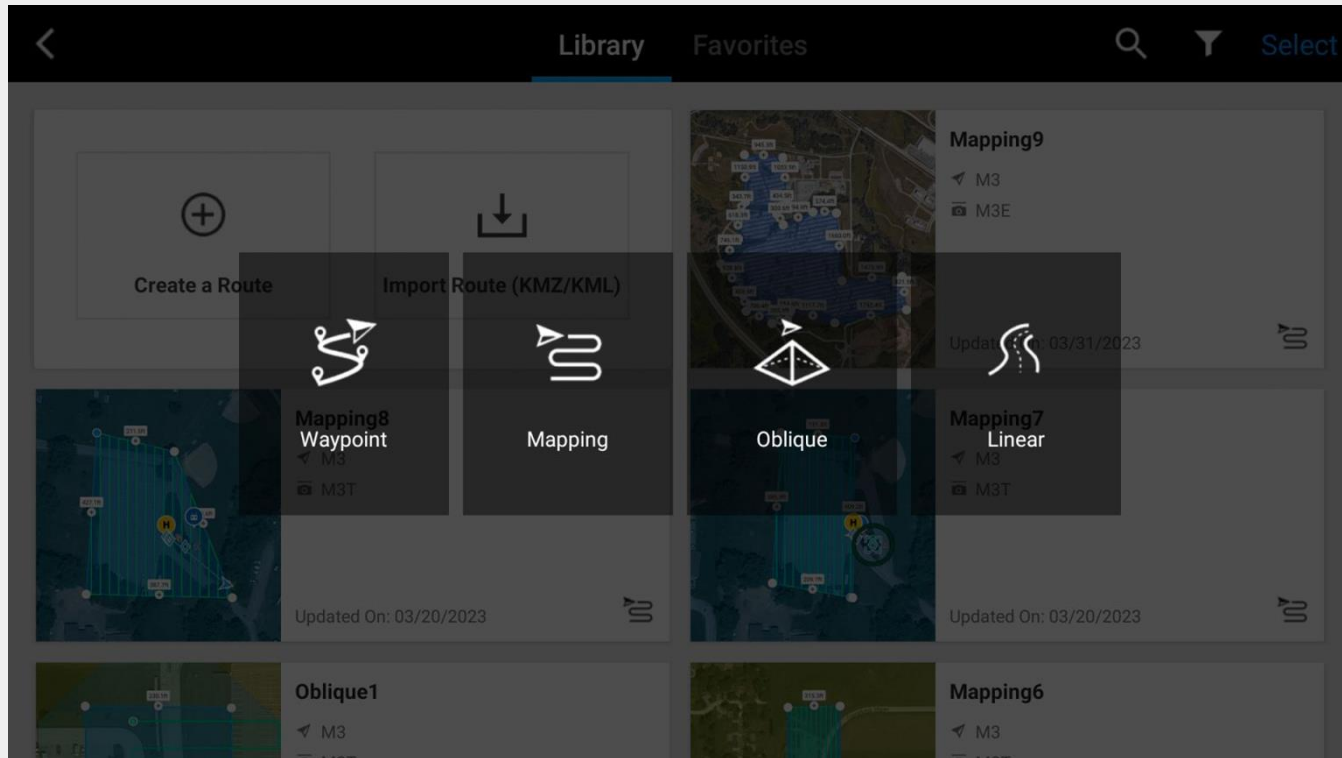
# Mission Planning/Application

The screenshot displays the DJI mobile application interface, divided into several sections:

- Top Left:** User profile icon and a shield icon representing account security.
- Max Altitude:** A card showing a location pin icon, the text "Max Altitude: 4921ft", and "RID (1A)" below it.
- Not Logged In:** A card with a cloud icon, the text "Not Logged In", and "Cloud Service" below it.
- Flight Route:** A map view showing a planned flight path with a white arrow and a yellow 'H' marker.
- Academy:** A card featuring a photograph of a DJI drone flying over a beach.
- Album:** A card showing a photograph of a field with several wind turbines.
- DJI CARE & Status:** A section on the right with "DJI CARE >" and a green "Normal >" button. Below this is an image of a remote controller, a "Link to Aircraft" button, the text "A Controller", and a "Firmware up to date" indicator with a plus icon.
- Bottom Right:** A large dark grey button labeled "Enter Camera View".



# Mission Planning/Application



# Mission Planning/Application

The screenshot displays the DJI flight app's mission planning interface. At the top, it shows 'Aircraft disconnected' and a battery level of 95% (16.8V). The main map area shows a blue flight path over a terrain with various altitude callouts in feet, such as 945.3ft, 1150.9ft, 1033.9ft, 343.7ft, 434.5ft, 574.4ft, 618.3ft, 303.6ft, 94.9ft, 746.1ft, 1660.0ft, 928.8ft, 1475.9ft, 408.9ft, 821.5ft, 700.4ft, 254.6ft, 1117.7ft, 385.9ft, and 1792.4ft. A 'Mapping' mission is selected, covering 211.2 acres. On the right, the 'DJI Mavic 3E WIDE' settings are shown, including 'Smart Oblique' (disabled), 'GSD' (2.05cm/pixel), and 'Terrain Follow' (enabled). The 'Terrain Follow' mode is set to 'DSM Follow'. Below this, there is a note: 'Enable RTK positioning before performing Terrain Follow. GPS is unable to solely guarantee flight route altitude accuracy'. The 'Terrain Follow Height' is set to 250 feet, with a range of 98~656ft. A small inset video shows the camera view from the drone.

N/A Aircraft disconnected 95% 16.8V

Mapping 211.2 acre 945.3ft

1150.9ft 1033.9ft 343.7ft 434.5ft 574.4ft 618.3ft 303.6ft 94.9ft 746.1ft 1660.0ft 928.8ft 1475.9ft 408.9ft 821.5ft 700.4ft 254.6ft 1117.7ft 385.9ft 1792.4ft

DJI Mavic 3E WIDE

Smart Oblique

GSD 2.05cm/pixel

Terrain Follow

Real-Time Follow DSM Follow

Enable RTK positioning before performing Terrain Follow. GPS is unable to solely guarantee flight route altitude accuracy

Terrain Follow Height

-100 -10 -1 250 +1 +10 +100

(98~656ft)

# Mission Planning/Application

The screenshot displays a drone mission planning application interface. The top status bar shows "Aircraft disconnected", a battery level of 95% at 16.8V, and a signal strength indicator. The main map area shows a blue flight path with numerous waypoints, each labeled with an altitude in feet (e.g., 945.3ft, 1150.9ft, 1033.9ft, 343.7ft, 434.5ft, 574.4ft, 618.3ft, 303.6ft, 94.9ft, 746.1ft, 1660.0ft, 928.8ft, 1475.9ft, 821.5ft, 408.9ft, 700.4ft, 254.6ft, 1117.7ft, 1792.4ft, 385.9ft). A "Mapping" mission is selected, covering 211.2 acres. On the left, there are icons for mission management (close, trash). On the right, there are control panels for "Takeoff Speed(mph)" and "Speed(mph)", both set to 33.5. Below these is the "Course Angle(°)" panel, set to 259. The "Elevation Optimization" panel is currently disabled. At the bottom, the "Upon Completion" panel is set to "Return To Home". A small video inset in the bottom left corner shows a camera view of a black object labeled "M3E".

# Mission Planning/Application

The screenshot displays a drone mission planning interface. The top status bar shows "Aircraft disconnected", a battery level of 95% at 16.8V, and a signal strength indicator. The main map area shows a blue flight path over a terrain with various elevation points labeled in feet, such as 945.3ft, 1150.9ft, 1033.9ft, 343.7ft, 434.5ft, 574.4ft, 618.3ft, 303.6ft, 94.9ft, 746.1ft, 1660.0ft, 928.8ft, 1475.9ft, 408.9ft, 821.5ft, 700.4ft, 254.6ft, 1117.7ft, 1792.4ft, and 385.9ft. A "Mapping" mission is selected, covering 211.2 acres. On the right, the "Advanced Settings" panel is open, showing sliders for "Side Overlap Ratio(%)" set to 70, "Frontal Overlap Ratio(%)" set to 80, and "Margin(ft)" set to 0. The "Photo Mode" is set to "Timed Interval Shot". A small inset window in the bottom left shows a camera view labeled "M3E".

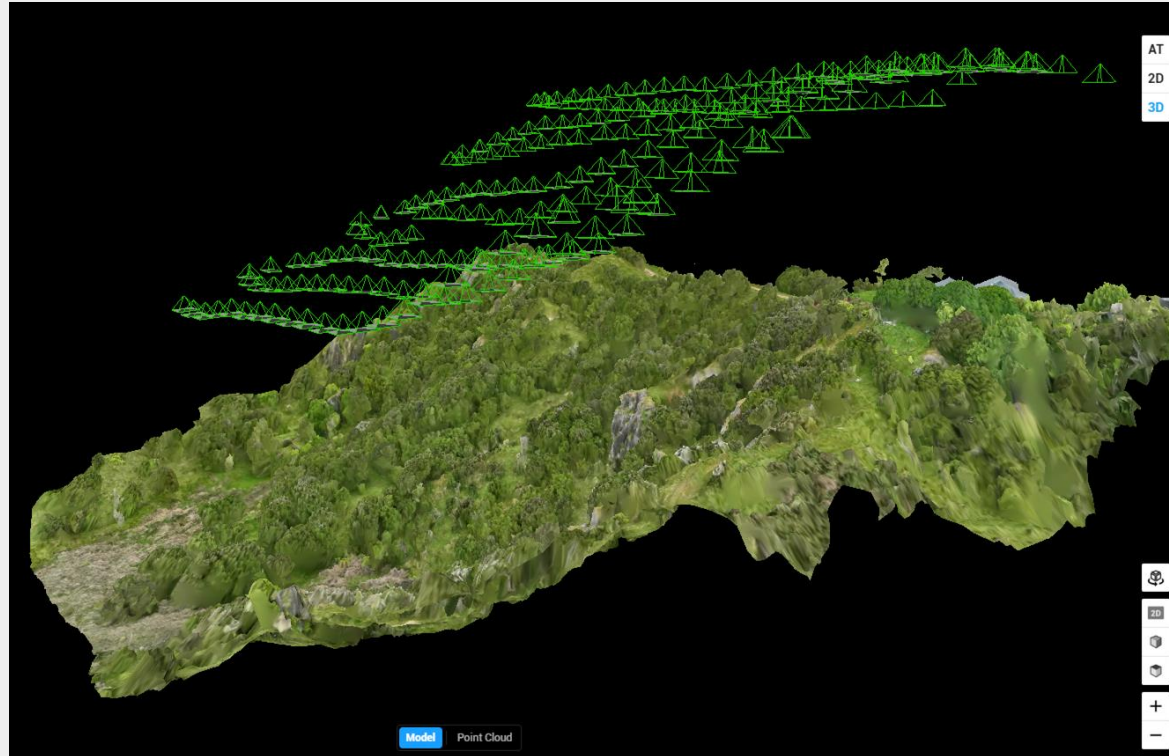
**Advanced Settings**

- Side Overlap Ratio(%): 70
- Frontal Overlap Ratio(%): 80
- Margin(ft): 0
- Photo Mode: Timed Interval Shot

# Terrain Follow



# Terrain Follow



# DJI Mavic 3 Multispectral

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

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

# M3M vs. MicaSense/AgEagle

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

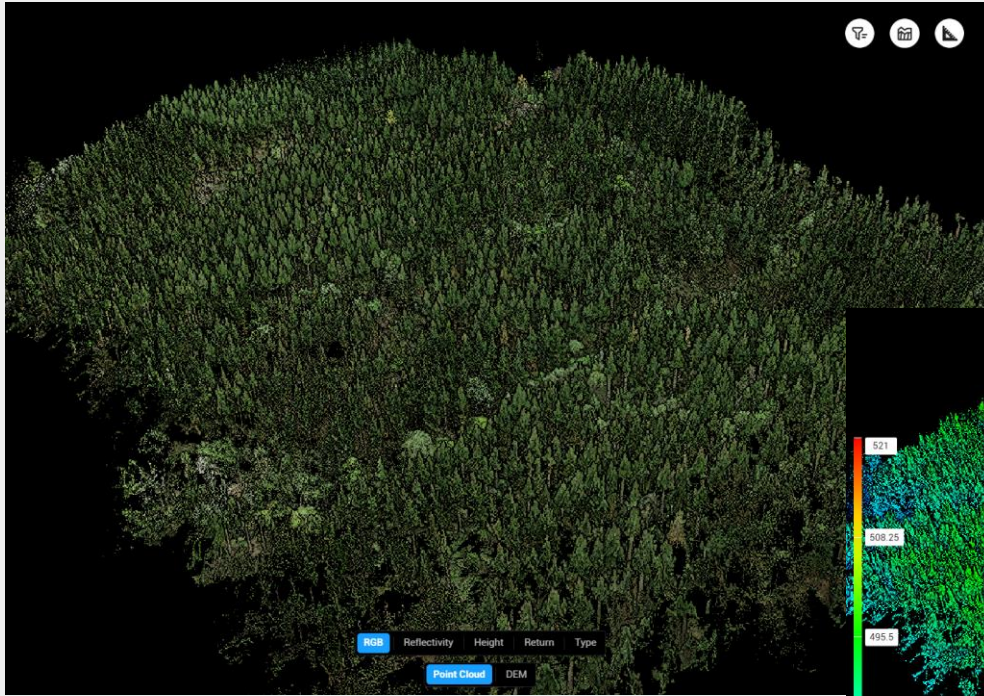


# Benefits for Forestry

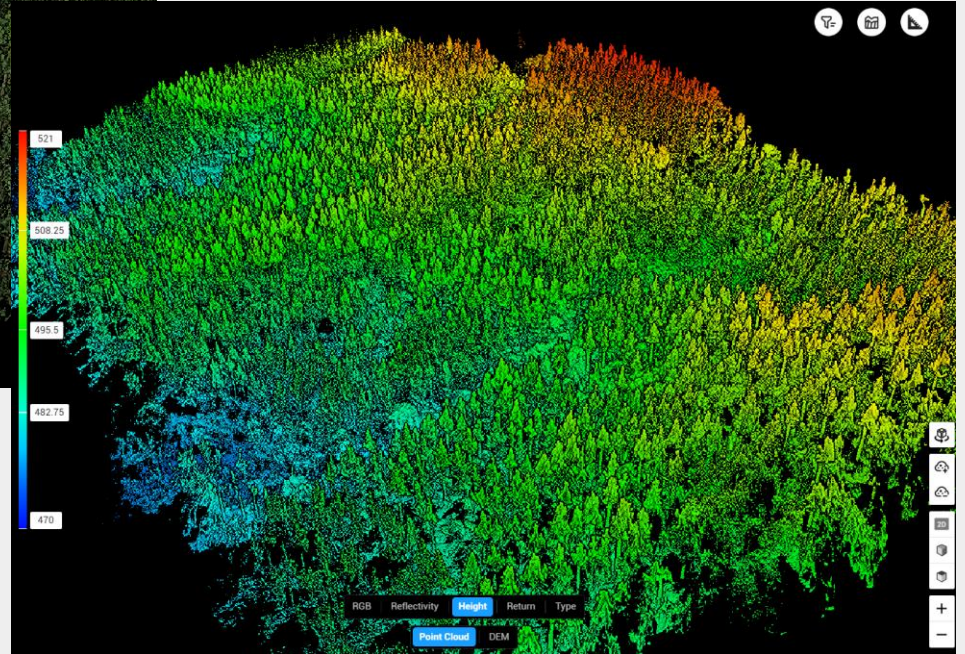
<b>Pain Points</b>	<b>Advantages</b>
<p>✘ Traditional forest management involves on-foot or helicopter surveying, which are time-consuming and drain resources.</p>	<p>✓ Drones streamline data collection, offering a cost-effective, rapid, and accurate solution for forest and land assessment.</p>
<p>✘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

# DJI Zenmuse L2

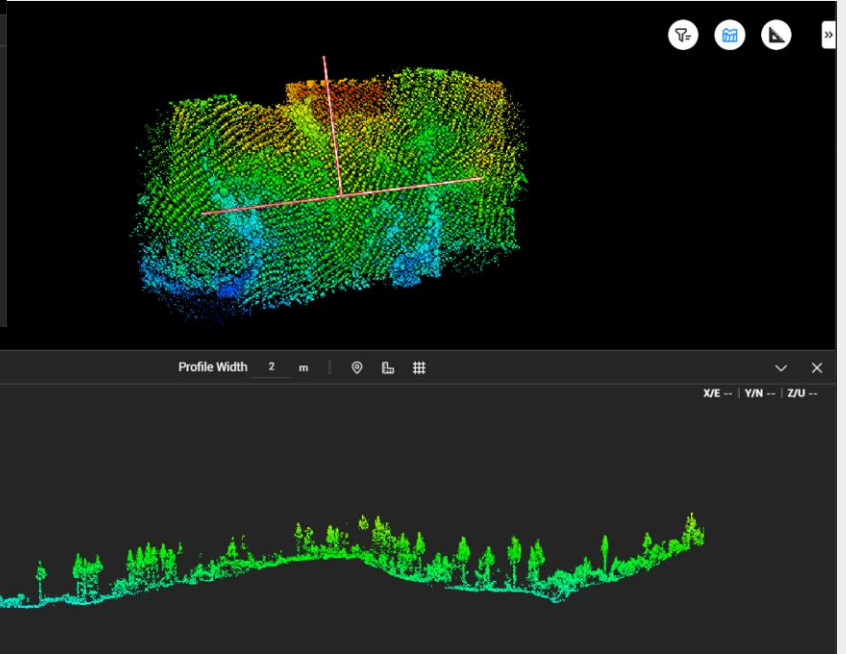
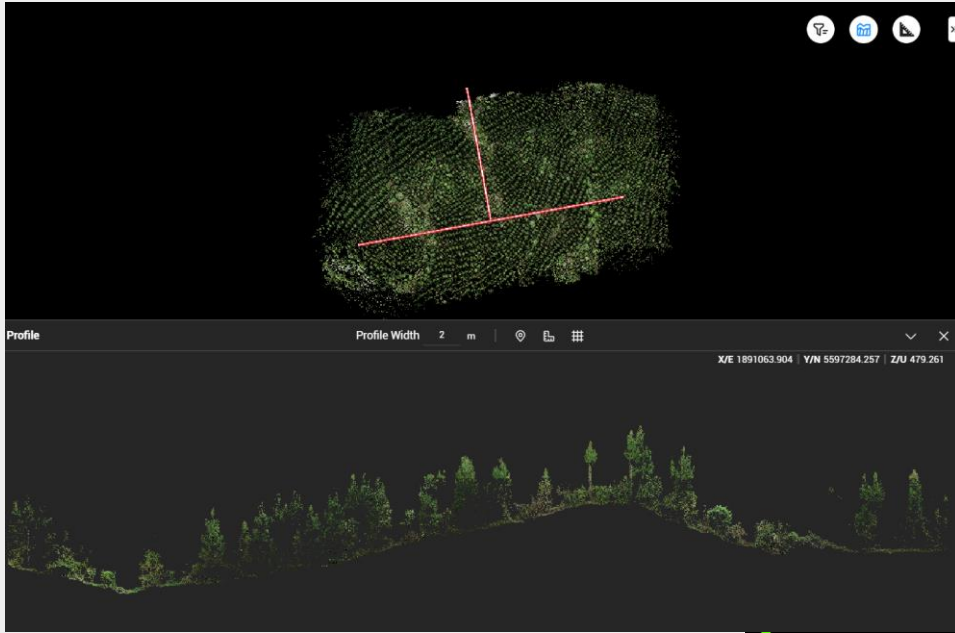




# Zenmuse L2



# Zenmuse L2



**Thank you for joining us!**

