



# DJI MAVIC 3 ENTERPRISE SERIES INTRODUCTION

YOUR EVERYDAY COMMERCIAL DRONE

# CONTENT

- **Product Introduction**
- Product Comparison
- Use Cases

# Overview of Mavic 3 Enterprise Series

- The Mavic 3 Enterprise Series comes in two versions: the Mavic 3E and the Mavic 3T.
- The Mavic 3E is the entry-level commercial drone with a 4/3-inch camera and mechanical shutter in the DJI enterprise product line that can fulfill basic needs.
- The Mavic 3E+RTK is the entry-level surveying drone adding timesync, and RTK capability.
- The Mavic 3T is the new entry-level thermal drone, an improvement from the Mavic 2 Enterprise Advanced.

- Portable Design
- 45min maximum Flight Time
- 4/3 inch CMOS Wide Camera (M3E)
- 640\*512@30Hz Thermal camera (M3T)
- Up to 56x Hybrid zooming
- O3 Enterprise Transmission
- RTK Module/Speaker (Optional)



# LIGHT AND PORTABLE

The foldable and lightweight airframe can support small units with individual tasks allowing flexibility wherever a drone is needed.

Weight: **915g(M3E), 920g(M3T)**



# Mavic 3 Enterprise Series Models

## M3E

- **Wide:** 4/3 inch CMOS, 20MP, 3.3um Pixel Size, Mechanical Shutter, 24mm Equivalent Focal Length
- **Tele:** 1/2 inch CMOS, 12MP, 56x Hybrid Zoom, 162mm Equivalent Focal Length



## M3T

- **Wide:** 1/2 inch CMOS, 48Mp, 24mm Equivalent Focal Length
- **Tele:** 1/2 inch CMOS, 12MP, 56x Hybrid Zoom, 162mm Equivalent Focal Length
- **Thermal :** 640 \* 512@30Hz, DFOV 61°, 40mm Equivalent Focal Length



# M3E Wide Camera

## Wide Camera

- 4/3 inch CMOS, 20MP
- Large pixel size: 3.3um, increasing daily operation time
- Mechanical shutter: avoid rolling shutter effect, shutter life 200,000 times
- Minimum Photo Interval: 0.7s
- Smart Low Light Photo
- **Utilize the RTK module to achieve centimeter-level GCP-free mapping accuracy**



Wide Camera

# M3E/M3T Tele Camera

Both the M3E and M3T integrate with a 12MP tele camera, which supports up to 56x hybrid zoom, enabling long-distance inspections/scouting

## Camera Specification

- 1/2 inch CMOS, 12MP, 162mm Equivalent Focal Length
- 56x hybrid zoom: 1x-7x is digital zoom of wide camera, and 7x-56x is digital zoom of tele camera.

## Synchronized Split-screen Zoom

- M3T supports up to 28x synchronized zoom between thermal and visual cameras. Users can scale both images at the same time. This doubles efficiency and makes it easier to compare details side by side.



56x Hybrid Zoom



Synchronized Split-screen Zoom

# M3T Thermal Camera

M3T integrates a high-resolution thermal sensor (**640\*512@30Hz**) to make informed decisions by quickly identifying objects onsite.

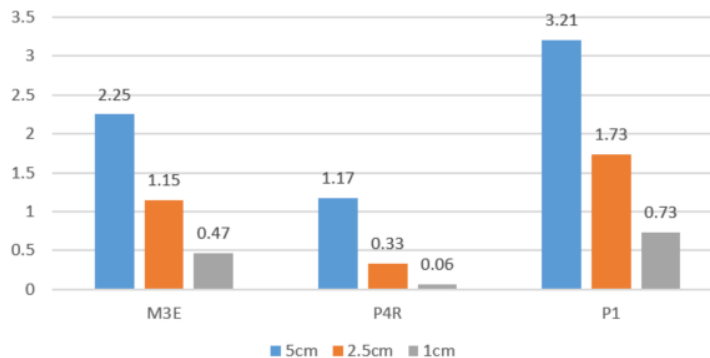




# Improved Surveying Efficiency

- Improved flight time of **42 minutes** (with RTK module)
- The shutter speed is **0.7 seconds**
- Max speed: 15 Meters per second
- Ability to capture over **2 square kilometers** in a single flight
- With the new 100W charging hub, it only takes 70 minutes to fully charge a single battery. When in the field with only 4 sets of batteries this can fulfill a full day of flight operations.

Area size covered by a single flight (km<sup>2</sup>)



Charging Hub (Optional)

\* GSD 5cm, Altitude 185m, 80% frontal overlap, 60% side overlap, 15m/s flight speed, 2D mapping. 11% battery remaining.

# Centimeter Mapping Accuracy

- **Timesync 2.0** can reach centimeter-level accuracy with the RTK module.
- **Mechanical shutter** ensures no rolling shutter effect under high-speed movement.
- In order to ensure the accuracy of modeling, the M3E camera will be calibrated with internal parameters when it's produced, and the internal parameters will be written in the XMP information of each image.
- The mapping accuracy is relative to the GSD, and M3E GCP-free accuracy is about 2 times that of GSD. For example, at 100m flight height,  $GSD=H/37=2.7\text{cm}$ , accuracy is within 5.4 cm
- Similar accuracy level to P4R/M300+P1

Test Accuracy without GCP (GSD 3.3cm)

Index	dx(m)	dy(m)	dz(m)
1	0.002	-0.002	0.017
2	0.011	-0.005	0.02
3	0.007	0.002	0.068
4	-0.004	-0.007	0.048
5	0.019	0.015	0.085
6	0.03	-0.015	0.013
7	0.015	-0.002	0.056
<b>RMSD</b>	<b>0.016</b>	<b>0.009</b>	<b>0.051</b>

# O3 Enterprise Transmission

- **4 Antenna Design, 2 Transmitters and 4 Receivers**
- **Range: 9-15 kilometers with low interference and 1.5 to 3 kilometer range when in a area with strong interference. (FCC)**
- **\*Supports 4G Transmission by updating firmware (Not supported in US market)**



\* Not supported at the time of release, and will be supported through firmware updates.

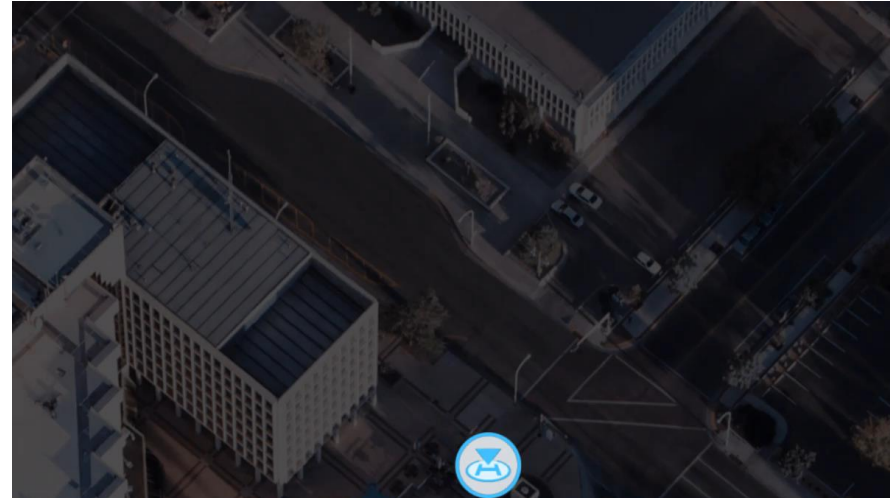
# Enhanced Safety

- **Omnidirectional Obstacle Sensing:** Multiple wide-angle vision sensors work seamlessly with a high-performance vision computing engine to sense obstacles in all directions precisely and plan a safe flight route that avoids them.



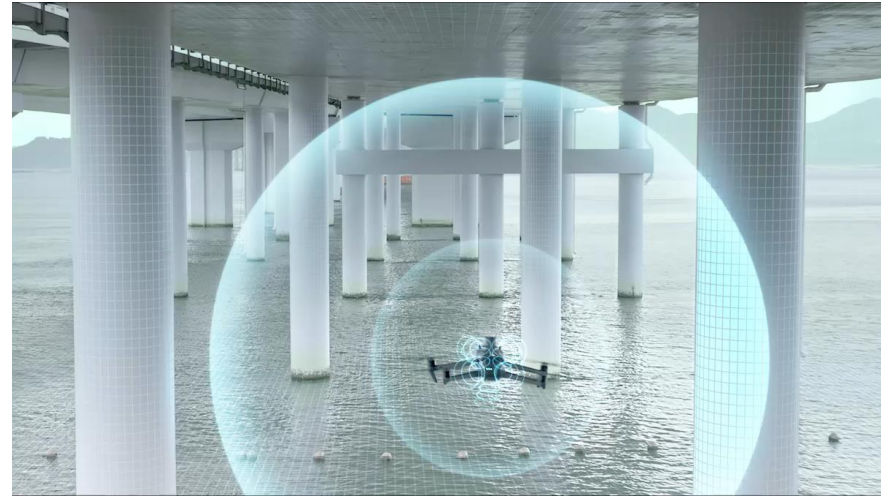
# Enhanced Safety

- Omnidirectional Obstacle Sensing: Multiple wide-angle vision sensors work seamlessly with a high-performance vision computing engine to sense obstacles in all directions precisely and plan a safe flight route that avoids them.
- **Advanced RTH:** When enabling the advanced RTH setting the optimal route back to the home point can be quickly executed without traditionally climbing to a pre-set altitude first.



# Enhanced Safety

- Omnidirectional Obstacle Sensing: Multiple wide-angle vision sensors work seamlessly with a high-performance vision computing engine to sense obstacles in all directions precisely and plan a safe flight route that avoids them.
- Advanced RTH: When enabling the advanced RTH setting the optimal route back to the home point can be quickly executed without traditionally climbing to a pre-set altitude first.
- **APAS 5.0:** With the advance pilot assistance system, the aircraft can continually sense objects in all directions and bypass them quickly and smoothly.



# Accessories

## DJI RC Pro Enterprise

- 5.5 inch, up to 1000 cd/m<sup>2</sup>
- 3 hour battery life (no external battery)
- Built-in microphone
- Supports DJI Cellular Module (not supported in US)
- 1.5 hours to fully charge, can charge while operating
- Supports mini-HDMI out and screen recording



## RTK Module

- Detachable RTK module
- Weight 20g
- Supports network RTK, custom network RTK and D-RTK 2 mobile station
- Photo supports writing RTK provider's information



## Speaker

- Louder volume (100m@78dB)
- Supports recording and loop playback
- New UI interface, easy to use
- Play options: Record & broadcast, text to speech, or uploading a file.



## DJI Cellular Module

- Drone and RC support 4G enhanced image transmission
- The dongle on the RC also can be used for RTK, FH2, livestreaming, etc.



# Professional Software

## DJI Pilot 2



- The RC has built-in DJI Pilot 2 APP
- Supports multiple mission planning options, including waypoint, mapping, oblique, linear.

## DJI FlightHub 2



- Flight Hub 2 features are also available including live streaming, aircraft info, live 2D mapping, panorama and media upload, and mission planning.

## DJI Terra



- You can import images taken by M3E/M3T to Terra for 2D/3D reconstruction. M3T mapping is not recommended due to unreliable accuracy.
- Both M3E and M3T include one DJI Terra Electricity version license for 3 months. The free Terra license will be automatically activated when the drone is activated

## DJI Thermal Analysis tool 3.0



- DJI Thermal Analysis Tool 3 is supported at launch allowing you to create a report and manipulate the radiometric thermal data with the specific parameters following data capture.



# Extensibility

## MSDK

- Supports 3<sup>rd</sup> party APP

## PSDK\*

- Maximum payload weight: 130g
- Mavic 3 E is also the first smaller enterprise drone with PSDK support

## Cloud API

- The Cloud API is supported for those who want to pull important information such as live video feed, photos, and telemetry from the drone without having to develop their own mobile application.

\* Not supported at the time of release, will be supported through firmware updates.



# Regional Restrictions and In The Box

## Regional Version

- **China:** Can only fly in China (1\*AC)
- **NA:** Can fly anywhere except China (1\*AC)
- **General:** Can fly anywhere except China (6\*AC)
- **Demo Unit:** No flying area restrictions (8\*AC)

AC = Power Cord options

## In The Box

- **Standard Package:** Aircraft\*1 + battery\*1 + SD card\*1 + gimbal cover\*1 + propeller\*3 (pairs) + RC\*1 + standard charger\*1 (100W) + AC\*1 + USB-C\*1 + dual USB-C\*1 + packaging (such as manual, certificate of conformity, etc.)
- **Optional:** RTK, speaker, Charging Hub (100W), battery, 4G dongle
- **Battery set (optional):** 3\*batteries + 1\* Charging Hub (100W),

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## In The Box



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- **Product Comparison**
- Use Cases

# Comparison: M3E VS M3T vs Mavic 3

	M3E	M3T	Mavic 3
Shutter	<ul style="list-style-type: none"><li>Mechanical + Electronic</li></ul>	<ul style="list-style-type: none"><li>Electronic Only</li></ul>	<ul style="list-style-type: none"><li>Electronic Only</li></ul>
APP	<ul style="list-style-type: none"><li>Pilot 2, support multiple routes planning</li></ul>	<ul style="list-style-type: none"><li>Pilot 2, support multiple routes planning</li></ul>	<ul style="list-style-type: none"><li>DJI Fly, No MSDK</li></ul>
Minimum Photo Interval	<ul style="list-style-type: none"><li>0.7s</li></ul>	<ul style="list-style-type: none"><li>2s</li></ul>	<ul style="list-style-type: none"><li>2.5s</li></ul>
Thermal Camera	<ul style="list-style-type: none"><li>No thermal camera</li></ul>	<ul style="list-style-type: none"><li>Thermal Camera</li></ul>	<ul style="list-style-type: none"><li>No thermal camera</li></ul>
Extensibility	<ul style="list-style-type: none"><li>MSDK, PSDK, Cloud API</li></ul>	<ul style="list-style-type: none"><li>MSDK, PSDK, Cloud API</li></ul>	<ul style="list-style-type: none"><li>No SDK</li></ul>
Internal Parameter Calibration	<ul style="list-style-type: none"><li>Internal Parameter Calibration for each unit</li></ul>	<ul style="list-style-type: none"><li>Internal Parameter Calibration for each unit</li></ul>	<ul style="list-style-type: none"><li>No Calibration</li></ul>
Smart Photography	<ul style="list-style-type: none"><li>No</li></ul>	<ul style="list-style-type: none"><li>No</li></ul>	<ul style="list-style-type: none"><li>Support time-lapse photography, point of Interest, etc.</li></ul>

Compared with the Mavic 3:

- The M3E supports mechanical shutter, Pilot 2 which can be used to plan surveying missions, 0.7s photo interval, RTK, SDK and internal parameter calibration. Suitable for surveying and inspection work.
- The M3T integrates thermal sensor, supports RTK, SDK, and route planning. Suitable for public safety, inspection scenarios.

**Note: M3E can do high-precision mapping, M3T is not recommended for surveying work.**

# Comparison: M3E VS P4R

	M3E	P4R
Weight	<ul style="list-style-type: none"><li>• 915g</li></ul>	<ul style="list-style-type: none"><li>• 1391g</li></ul>
Portability	<ul style="list-style-type: none"><li>• Foldable</li></ul>	<ul style="list-style-type: none"><li>• Unfoldable</li></ul>
Diagonal Length	<ul style="list-style-type: none"><li>• 380mm</li></ul>	<ul style="list-style-type: none"><li>• 350mm</li></ul>
Maximum Ascent Speed	<ul style="list-style-type: none"><li>• 6m/s (N mode), 8m/s (S mode)</li></ul>	<ul style="list-style-type: none"><li>• 6m/s (mission flight), 5m/s (manual Flight)</li></ul>
Max Descent Speed	<ul style="list-style-type: none"><li>• 6m/s</li></ul>	<ul style="list-style-type: none"><li>• 3m/s</li></ul>
Max Wind Speed Resistance	<ul style="list-style-type: none"><li>• 12m/s</li></ul>	<ul style="list-style-type: none"><li>• 10m/s</li></ul>
Max Flight Time	<ul style="list-style-type: none"><li>• 42min (with RTK module)</li></ul>	<ul style="list-style-type: none"><li>• 30min</li></ul>
Operating Temperature	<ul style="list-style-type: none"><li>• -10-40°C</li></ul>	<ul style="list-style-type: none"><li>• 0-40°C</li></ul>
Maximum flight speed of mapping mission	<ul style="list-style-type: none"><li>• 15m/s</li></ul>	<ul style="list-style-type: none"><li>• 13m/s</li></ul>
Max Service Ceiling Above Sea Level	<ul style="list-style-type: none"><li>• 6000m</li></ul>	<ul style="list-style-type: none"><li>• 6000m</li></ul>
Propeller	<ul style="list-style-type: none"><li>• Integrated with the aircraft, detachable</li></ul>	<ul style="list-style-type: none"><li>• Needs to be installed every time</li></ul>

Compared with the P4R, the M3E is lighter, more portable, has stronger battery life, and stronger environmental adaptability.

# Comparison: M3E VS P4R

Module		M3E	P4R
Wide Camera	CMOS	• 4/3 Inch	• 1 Inch
	Effective Pixels	• 20MP	• 20MP
	Pixel Size	• 3.3um	• 2.4um
	Minimum Photo Interval	• 0.7s	• 2.5s
	Image Format	• JPEG/DNG(RAW)	• JPEG
	Maximum Image Resolution	• 5280 * 3956	• 5472 * 3648
	360° Panorama Image	• Supported	• Not Supported
Tele Camera	Tele Camera	• 1/2-inch CMOS, 12MP, 7x-56x zoom	• Not Supported
Other Modules	Obstacle Avoidance	• Omnidirectional binocular vision system, supplemented with an infrared sensor at the bottom of the aircraft	• Forward/Rear/Downward binocular vision system, with infrared sensors at two sides
	Advanced RTH	• Supported	• Not Supported
	Beacon	• Supported	• Not Supported
	APAS	• APAS5.0	• Not Supported

The M3E has tele camera, higher mapping efficiency and stronger obstacle avoidance capability

# Comparison: M3E VS P4R

Module	M3E	P4R
RC	RC	• Standard RC and SDK RC
	Transmission	• OcuSync (7km, FCC)
	4G Image Transmission	• Not Supported
	HDMI	• Not Supported
	Screen	• 5.5 inch, 1920 * 1080, 16G ROM
	APP	• GSR APP
SDK	MSDK	• Supported, SDK controller
	PSDK	• Not Supported
	Cloud API	• Not Supported
	FH2	• Not Supported
	Accessories	• Not Supported

- The M3E RC has greater image transmission range and supports 4G image transmission.
- M3E has better extensibility than P4R, supporting MSDK, PSDK, cloud API, FH2 and speakers, etc. P4R only supports MSDK.



# Comparison: M3E VS P4R

Module	M3E	P4R
Mission Planning	Mapping	• Supported
	Oblique	• Supported
	Linear	• Supported
	Waypoint	• Supported
	Terrain Follow	• Supported
	Detailed Inspection in Terra	• Supported
	Panorama	• Not Supported
	Linear Flight (Adjust Height)	• Supported
	Double Grid	• Supported
	Angled Flight Route	• Supported
	Block Segmentation	• Supported
	RTK Rover	• Supported

- The APP used by M3E is Pilot 2, and the route planning is not as advanced as GSR used by P4R

# Comparison: M3T VS M2EA

Specifications	M2EA	M3T
Weight	909 g	920g
Dimensions (L×W×H)	Folded: 214×91×84mm, Unfolded: 322×242×84mm	Folded: 221×96.3×90.3mm, Unfolded: 347.5×283×107.7mm
Diagonal Distance	354 mm	380.1 mm
Max Ascent Speed	6 m/s (S-mode) 5 m/s (P-mode)	8 m/s (S-mode)
Max Descent Speed	5 m/s (Descend Vertically) 7 m/s (Tilt)	6 m/s (S-mode)
Max Speed	20m/s	21 m/s (S-mode)
Max Service Ceiling Above Sea Level	6000m	6000m
Maximum Transmission Range	10km (FCC)	15km (FCC)
Max Flight Time	31min	45min
Max Wind Speed Resistance	10 m/s (scale 5)	12 m/s (scale 6)
Operating Temperature	-10° to 40° C	-10° to 40° C
GNSS	GPS+GLONASS	BeiDou+Galileo+GPS
Internal Storage	24GB	Not Supported
Panorama	Supported	Supported
Obstacle Sensing	Forward/Rear/Downward binocular vision Left/Right single vision Up/Down infrared sensor	Omnidirectional binocular vision system, supplemented with an infrared sensor at the bottom of the aircraft

- Compared with the M2EA, the M3T has enhanced transmission, is more durable, adaptable to the environment, and has stronger obstacle avoidance capability.

# Comparison: M3T VS M2EA

Specification	M2EA	M3T
Camera	Wide + Thermal	Wide + Tele + Thermal
Stabilization	3-axis motorized (tilt, roll, pan)	3-axis motorized (tilt, roll, pan)
Angular Vibration Range	±0.005°	±0.007°
Sensor Resolution	640*512@30Hz	640x512@30Hz
Metering Method	Spot Meter, Area Measurement	Spot Meter, Area Measurement
Digital Zoom	16x	14x
Visual Camera Sensor	1/2" CMOS	Wide: 1/2" CMOS Tele: 1/2" CMOS
Effective Pixels	48MP	Wide: 48MP Tele: 12MP
Zoom	32×Digital zoom	56x hybrid zoom
Video Resolution	4k30p	4k30p

- Compared with the M2EA, the M3T integrate with a 12MP tele camera, which supports up to 56x hybrid zoom, enabling long-distance scouting

# CONTENT

- Product Introduction
- Product Comparison
- **Use Cases**

# Hailuoguo Glacier Surveying

## Background

- Hailuoguo Glacier is a typical marine low-altitude glacier in China. The Institute of Mountain Hazards and Environment of Chinese Academy of Science leads their team to carry out glacier surveying in Hailuoguo year round, studying the dynamic changes of glaciers through multi-period surveying.
- Traditional surveying method (e.g RTK), requires 1-2 days to complete a full-scale ice surveying with low efficiency. Comprehensive topographic data is unable to be obtained as the ice surface is hard to access.



Panorama: [https://720yun.com/t/4fvk6lrtsy?scene\\_id=98862524](https://720yun.com/t/4fvk6lrtsy?scene_id=98862524)

# Hailuoguo Glacier Surveying

## Aerial survey solution

- A layered shooting plan is applied as only 2 hours are available for shooting due to fog and rain in the area. The section is divided into **1500m**, **1000m**, **500m** and low altitudes relative to take off points for terrain following through a historical DSM after checking the survey area in Google map.
- **9** flights in total, **4349** photos
- 11.5 hours modeling by Terra
- **M3E Application advantage: Light and Portable, GCP free, Up to 1500m, High efficiency**

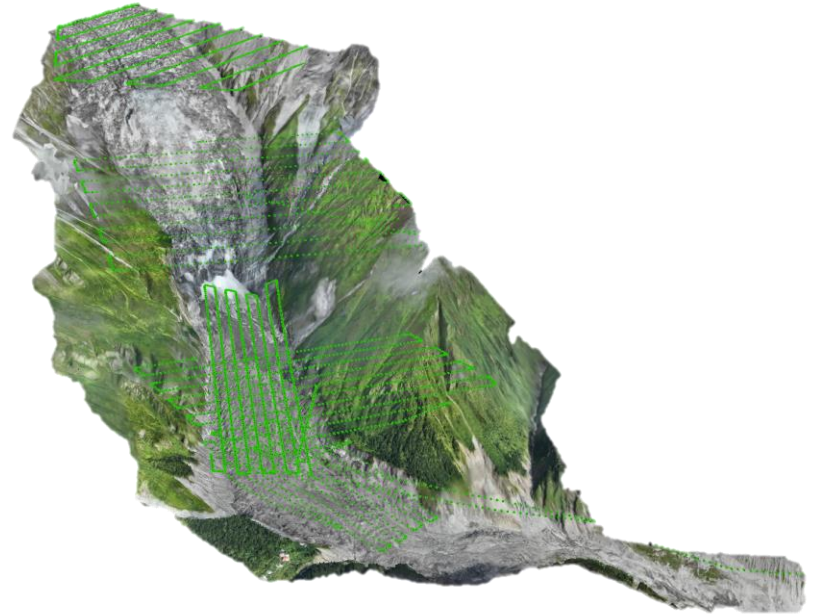
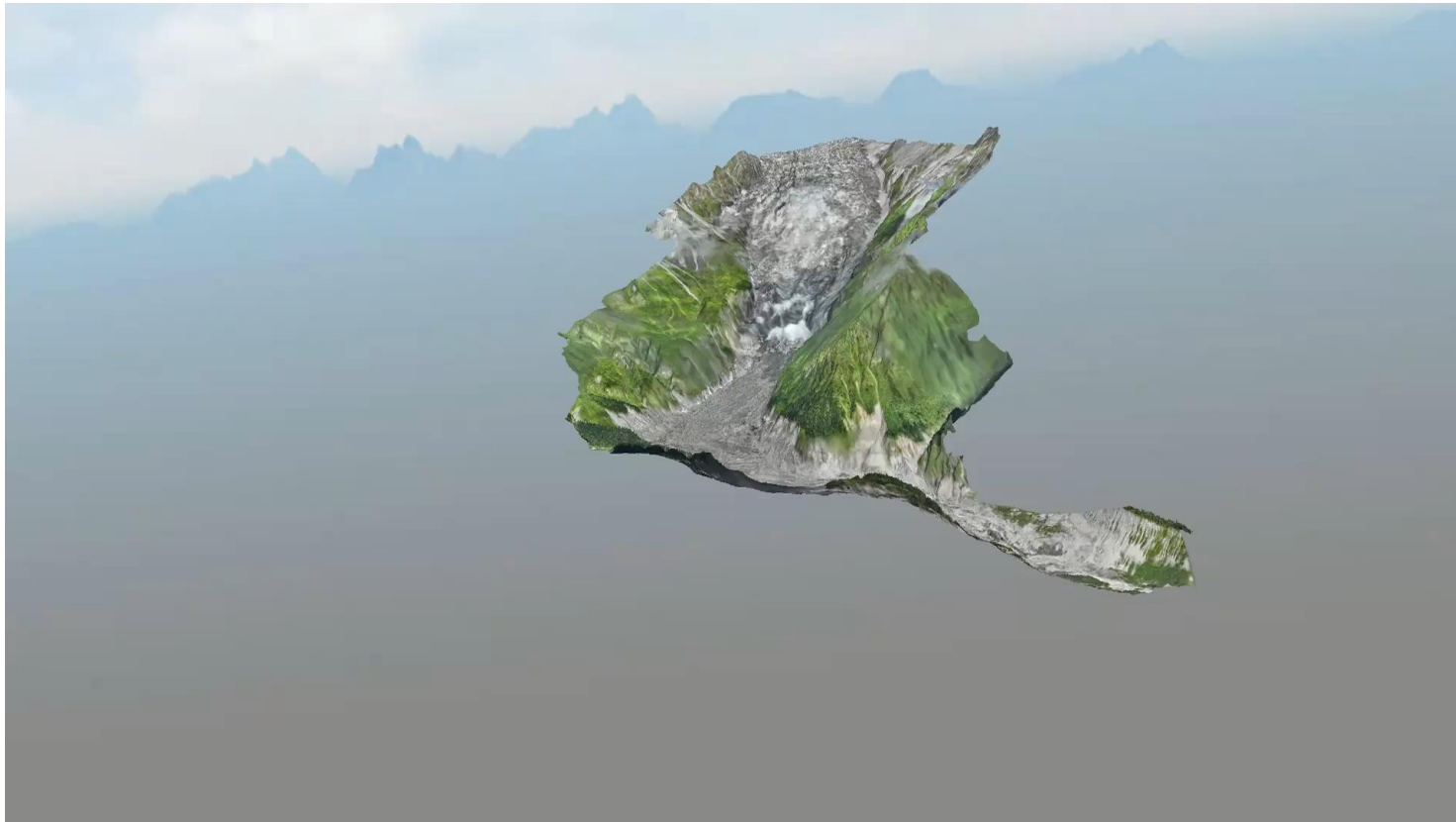


photo point distribution map

## 3D Model of Hailuoguo Glacier



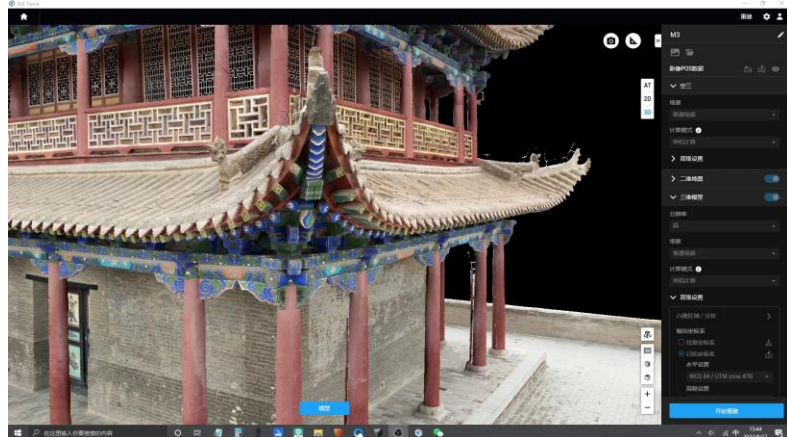
# Jiayu Pass Heritage Modeling

## Aerial survey solution

- Route planning software: DIM (refined route design based on rough modeling of the structure)
- Hardware: M3E + Battery\*3
- Resolution: 1.5mm, as close as 5 meters away from the tower
- Data collection: 2 flights, 724 photos

## Advantages

- **Lightweight:** Lightweight drone required with density of tourists
- **Safety:** Customizable omnidirectional obstacle avoidance helped ensure a safe flight even just 5 meters away from the tower
- **Efficiency:** Long battery life, 0.7s photographing interval lead to high efficiency for data capture
- **Millimeter Resolution:** Millimeter resolution results from all angles.
- **Integrated operation:** M3E + Terra, automatic operation





# Jiayu Pass 3D Model Recording



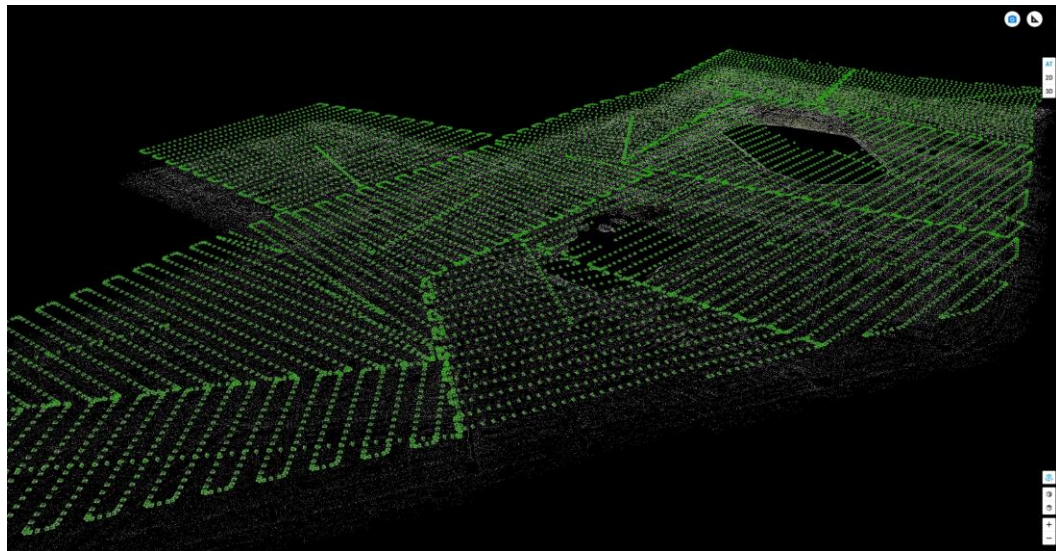
# QINGXU-ORTHOMOSAIC

## BACKGROUND

- Application: Land Resources Survey, Comprehensive Survey of Urban Construction and Land Use in Qinghu County, Taiyuan, Shanxi
- Size: **15km<sup>2</sup>** @ at least 5cm GSD
- Complex environment: high difficulty in selecting take-off and landing points due to signal interference
- Tight schedule: Data delivery within 1 week

## IMPLEMENTATION

- Hardware: M3E\*1+Battery\*9
- Flight parameter: 150m altitude, 4cm GSD@15m/s
- Route design: 10 sections, 80%/70% overlap
- Data collection: Single day(8:30-17:40), 15 flights
- Data status: 9838 photos, 105GB



9838 aerotriangulation  
photos



M3E data collection



M3E data collection

# QINGXU-ORTHOMOSAIC

## HIGH EFFICIENCY

- 1km<sup>2</sup> with 4cm GSD in one single flight
- 15-18km<sup>2</sup> orthomosaic @4cm GSD per day

## PREMIER QUALITY

- GCP Free Aerotriangulation Accuracy: 3.2cm horizontally, 7.0cm vertically
- GCP Free Model Accuracy: Level 5cm, Elevation 7.1cm
- Bright and colorful images captured even after 5 pm
- Stable GCP free accuracy, uniform color and brightness of data from day to night

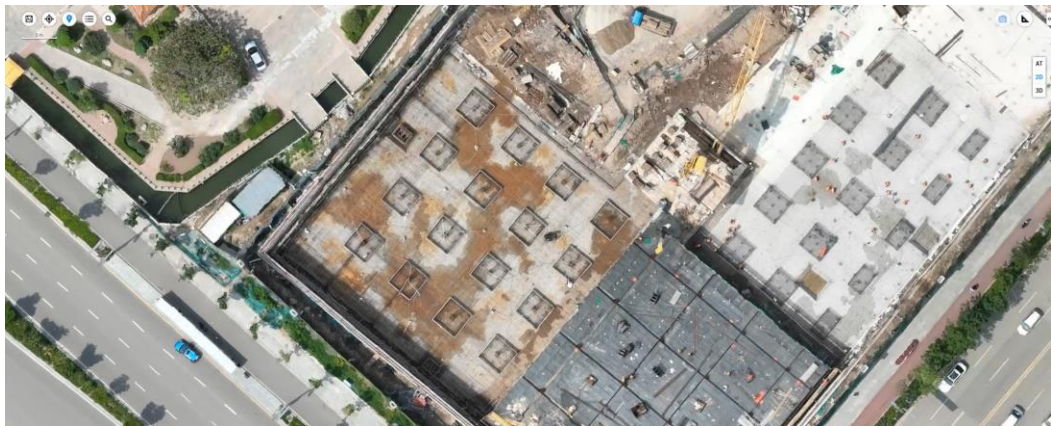
## EASY OPERATION

- Strong Signal: O3+Enterprise transmission and 4G image transmission, Unblocked signal
- Flexible takeoff: Compact, able to take off anywhere
- One handbag to carry, ultimate portability

### DJI Terra GCP Free Aerotriangulation Accuracy

Name	dx(m)	dy(m)	dz(m)	Flat point error	Elevation error
GCP1	-0.020	0.013	0.146	0.017	0.124
GCP2	0.032	-0.001	0.082	0.048	0.104
GCP3	0.027	0.000	0.028	0.051	0.024
GCP4	0.039	-0.006	0.087	0.038	0.094
GCP5	-0.022	0.010	0.075	0.022	0.089
GCP6	-0.008	0.021	0.037	0.024	0.045
GCP7	0.023	0.029	-0.079	0.022	-0.013
GCP8	0.005	-0.015	0.029	0.014	0.055
GCP9	-0.022	0.012	0.054	0.022	0.070
GCP10	0.014	-0.021	0.032	0.017	0.040
GCP11	0.014	-0.003	0.081	0.018	0.092
GCP12	0.067	0.009	0.080	0.058	0.086
GCP14	0.023	0.035	0.049	0.004	0.041
GCP15	-0.047	-0.007	0.043	0.040	0.014
Medium Error	0.036	0.030	0.070	0.050	0.071

### 3D model GCP Accuracy



Orthomosaic Recording

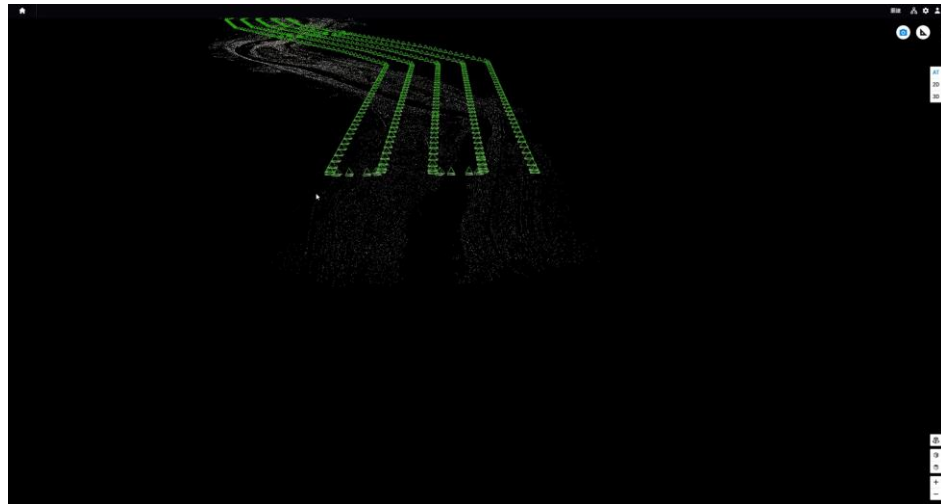
# FENHE RIVER-LONG DISTANCE RIVER INSPECTION

## BACKGROUND

- Refined modeling within 300m on both sides of the river
- Range: 53km, with at least 3cm accuracy
- Tight schedule: 2 days

## IMPLEMENTATION

- Hardware: M3E\*1+Battery\*9
- Flight parameter: 120m altitude, 3.2cm GSD@15m/s
- Route design: Linear Mission Planning, 5 routes, 300m width
- Data collection: 7 flights in total, 8 home points per day
- Data status: 8470 photos, 90GB



53km river aerotriangulation result



M3E data collection



M3E data collection



# FENHE RIVER-LONG DISTANCE RIVER INSPECTION

## FASTER

- 15m/s speed, 0.7s photographing interval
- Fully automatic operation, stable flight and no invalid photos
- 53km route surveying @3cm GSD per day

## STRONGER

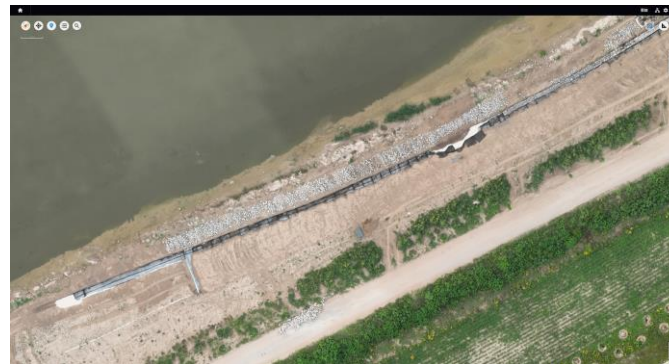
- 7km O3+image transmission
- Equipped with 4G Dongle, enhancing image transmission
- Flight monitoring, continuous RTK signal, comfortable operation

## QUICKER

- 1 minute to take off
- Flexibility for take off or landing
- Extremely maneuverable, "fly at your own will"



Facilities Status Inspection



Project Progress  
Inspection

# G20 HIGHWAY INSPECTION

## BACKGROUND

- Highway maintenance surveying inspection requires refined modeling, which covers 500m extension on both sides
- Range: surface and slope modeling @3km length, at least 2cm accuracy
- Time sequence collection: Repeated collection performed weekly, and multi-period data compared

## IMPLEMENTATION

- Hardware: M3E\*1+Battery\*3
- Flight parameter: 70m altitude, 2cm GSD@15m/s
- Route design: 80%/60% overlap, Area Mission Planning
- Data collection: 3 flights, 2 hours to complete
- Data status: 3528 photos, 30GB



Road crack survey



Slope crack survey

# G20 HIGHWAY INSPECTION

## SUPERIOR RESOLUTION

- 2cm resolution, highly saturated colors
- Able to identify surface and slope cracks
- Better resolution than P4R at the same GSD

## ENHANCED OBSTACLE AVOIDANCE

- Omnidirectional visual obstacle avoidance activated during entire flight, identifying obstacles accurately
- Safe operation at lower flight altitude

## HIGHLY ACCURATE TIMING ACQUISITION

- GCP free @Level 3cm, Elevation 4cm
- Accurate multi-period data comparison, analyzing slope changes.
- Comprehensively supported by DJI Terra, enabling M3E high precision surveying



G20 modeling presentation

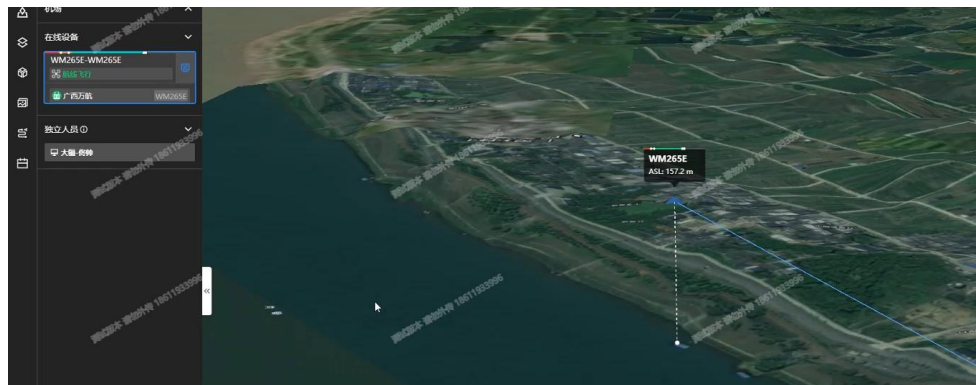
# SOUTHERN NANNING-3D

## BACKGROUND

- Diversity: 10.5km<sup>2</sup>, including ancient village tourism, aquaculture, high-standard farmland etc.
- Time-sequential data retention: aerial photograph, recording and development process archiving
- Publicity: 3D model presentation

## IMPLEMENTATION

- Hardware: M3E\*1+ battery\*6
- Flight parameter: 150m altitude, 4cm GSD@15m/s
- Route design: Area Mission Planning + Oblique Flight, 80%/60% overlap
- Data collection: 8 flights in total, sync to FlightHub 2
- Data status: 4221 photos, GCP free with 5cm accuracy



M3E data collection sync to FlightHub 2



Live streaming sync to the cloud



# SOUTHERN NANNING-3D

## POWERFUL 3D MOEDELING

- Main area modeling via oblique flight @ 50m altitude
- 0.1km<sup>2</sup> coverage by a single flight
- 5X more efficient than P4R, about 1/2 of P1's

## FLIGHT HUB 2 ARCHIVING

- Route live streaming
- Route photos sync to cloud
- \*3D upload browsing
- Realizing sequential acquisition and multi-level multiplexing of data

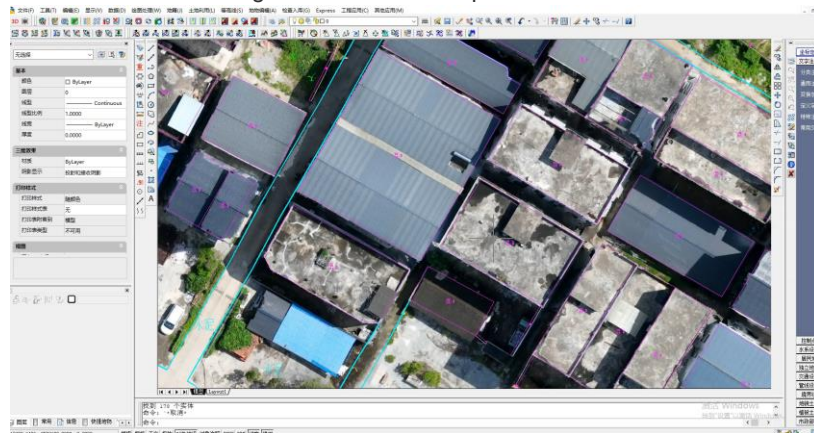
## DIGITAL LINE GRAPH GENERATION

- DLG Generated by EPS
- High quality real 3D modeling, easy to generate DLG

*\*Note: 3D model uploading is planned to be supported in the H1 of next year*



Flight Hub 2 3D model presentation



DLG generation based on Real 3D modeling

# BAOXING EARTH DISASTER CLOSE-RANGE PHOTOGRAMMETRY

## BACKGROUND

- Yaan Baoxing: Wenchuan Earthquake, Lushan earthquake main disaster area, surrounded by mountains
- Huge drop: 700m maximum altitude drop, crossed power lines
- Earth Disaster Survey: large numbers of exposed rock, high-frequency investigation

## IMPLEMENTATION

- Hardware: M3E\*1+M300/P1\*1
- Route design: First 3D modeling (M300), then Earth Disaster Survey (M3E) based off of the model
- Data collection: 40 flights by M3E
- Data status: 1200 photos for each disaster site, 30000 photos in total



25 Distribution of Hidden Hazard Points



crossed power lines, hard to operate

# BAOXING EARTH DISASTER CLOSE-RANGE PHOTOGRAMMETRY

## WPM SUPPORT

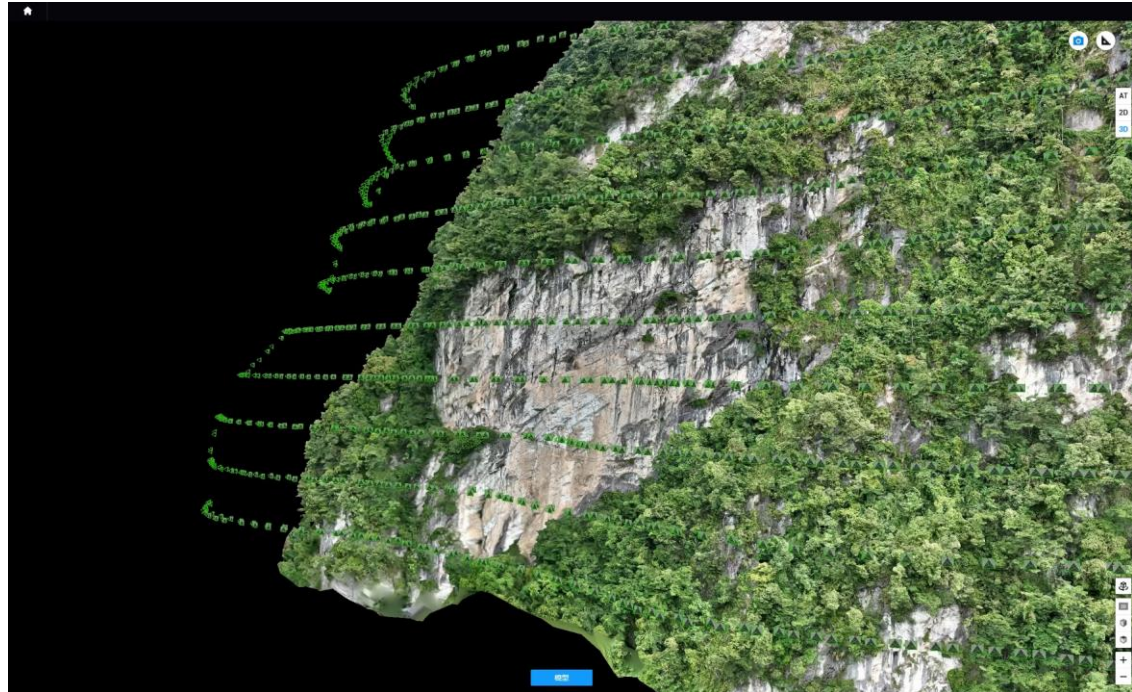
- 10-20 meters shooting distance
- Route planning via WPM
- Automatic capture of hidden hazard points

## FLEXIBLE OPERATION

- Adaptability to sudden strong crosswind, and complex environment with wires
- M3E Omnidirectional obstacle avoidance
- Automatic flight - safe, manual flight - easy

## PORTABILITY

- Able to be carried in a backpack
- Portable and lightweight for inter-mountain transportation, easy operation
- Maximize labor savings



Hidden Hazard Points 3D modeling



# MCCOWN GORDON CONSTRUCTION

## NEEDS

- Monitoring job site progress over time and delivering updates to key clients within the product.
- Use cases include project updates, volumetric analysis, cut/fill & grade analysis, and inspection of assets onsite.

## CHALLENGES

- Large number of jobsites, large-scale sites (well over 160 acres), timeliness of gathering data, dealing with harsh working environments.



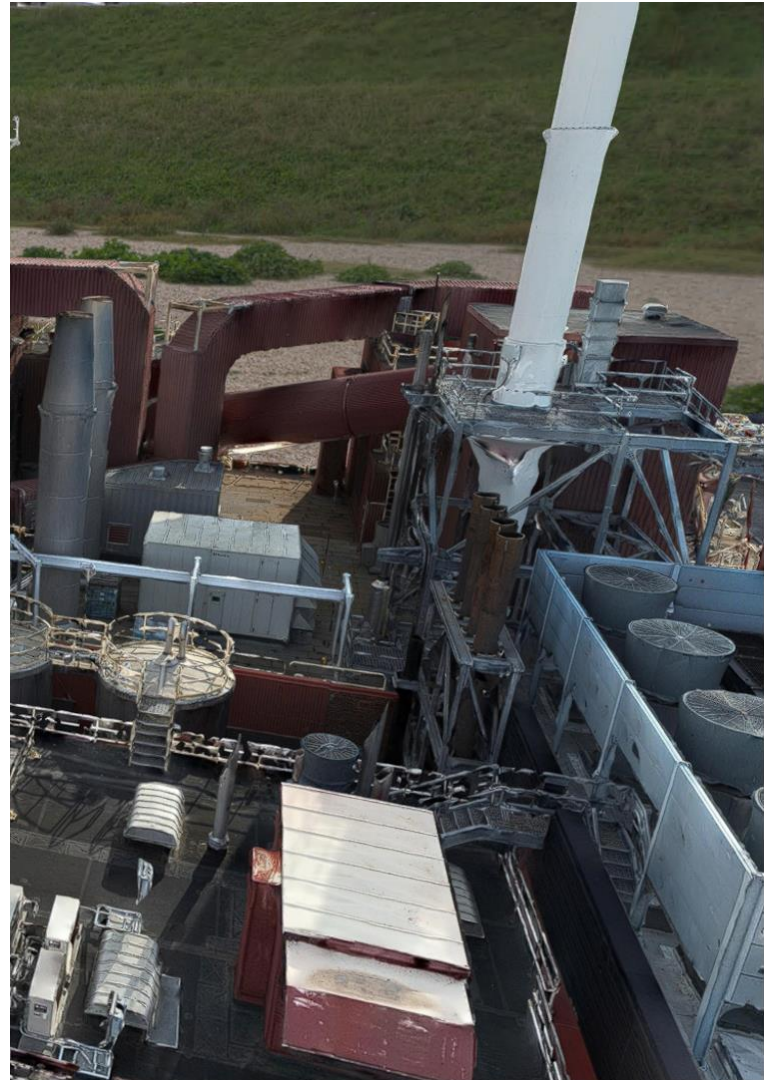
# MCCOWN GORDON CONSTRUCTION

## BENEFITS

- Need for a holistic solution for mgmt. and project teams to better be aware of real-time advancements, setbacks, and potential risks.

## VALUE

- “The Mavic 3 Enterprise has sped capture time onsite by over 200%. Even after a 25 minute survey we still have 35% battery left. Amazing!” – Michael Gekas
- “Image quality on the Mavic 3 Enterprise is great! The image sharpness, dynamic range, and exposure has been greatly improved even over the industry standard Phantom 4 RTK. This drone resets the industry standard” – Asher Hughes



# NETZE BW POWER GRID INSPECTION



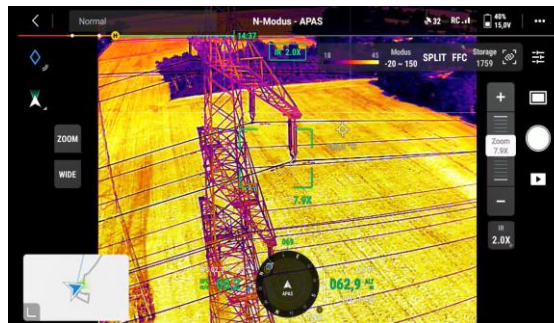
Pylon Serial Number Reading



Insulator Strip Inspection



Zoom Camera Inspection



Thermal Inspection

## Key Value

- 7 times optical zoom, ensures a safer distance of 20 meters away for inspection, and more efficient operation.
- There is no need for the user to fly drones inside the pylon for the inspection of the interior insulator strips.
- Thermal camera can find abnormal problems with equipment, such as wire clamps and cutter gates, detecting possible hazards quickly.
- Omnidirectional and customizable obstacle avoidance system helps ensure flight safety.

# PANZHIHUA POWER GRID INSPECTION

## BACKGROUND

- Panzhihua, a mountainous region with an average altitude of 2000m, poses challenges to UAV inspections and efficiency.
- The purpose of this test is to implement refined inspections for certain 110kV single-cycle tension towers.

## EFFICIENCY COMPARISON

- M2EA: 1.8 pylons per flight
- M3E: 3.5 pylons per flight
- Conclusion: The battery life of M3E is about **50%** longer than that of M2EA, and the **focusing speed** is significantly improved. A single battery can support the inspection of 3.5 pylons, which is 1.9 times higher than that of M2EA.





# PEARLAND POLICE ACCIDENT RECONSTRUCTION

## BACKGROUND

- An accident has occurred and officers need to quickly document the scene.
- Time delays result in potential crashes from the backed-up traffic, officers at risk standing on the road, and lost time and money for drivers within the region.

## SYSTEM BENEFITS

- Option to utilize RTK module for corrections. A few checkpoints can be used instead of multiple ground control.
- 0.7s photo interval, 15m/s max speed, and higher resolution allow the data collection to be quickly completed.
- Processing of imagery in DJI Terra provides an accurate 3D model to document scene.





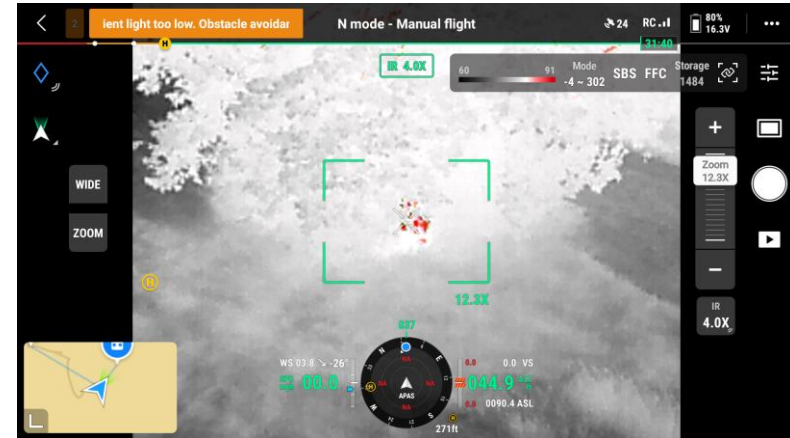
# Law Enforcement Patrol Mission Deployment

## BACKGROUND

- Officers are dispatched based on a report of a catalytic converter theft. See a suspect flee into the woods.
- Additional teams try and set up a perimeter around the area while determining if the suspect is still within the wooded area.

## MISSION READY TOOLS

- An arriving officer is able to quickly deploy the drone from the back of the patrol vehicle before the suspect gets to far.
- Thermal tools including zoom, isotherms, and temperature alarm help the operator identify the location of the suspect.
- Longer flight time allows the operator to keep the drone in the air until the ground units can arrive and drop a pin on their drone location to easily return.



# FAQ

Index	Questions	Answers
1	Does the M3E use a Hasselblad camera?	The camera's specification is same as the M3, but with the addition of mechanical shutter. And unlike the Hasselblad natural color solution used by the consumer M3, the M3E focused more on the modeling quality, so M3E does not use Hasselblad natural color solution.
2	Does M3E support Timesync?	Yes, M3E supports Timesync 2.0
3	Does M3E/M3T support High-Res Grid Photo	Not supported
4	Does the M3E/M3T's battery support self-heating?	Not supported
5	What is the maximum flight time of M3E/M3T with RTK module?	42-43min
6	Can users update the firmware of M3's remote controller to support M3E/M3T or the other way around?	No
7	Does the M3E/T support dual control?	Not supported
8	Does the M3E/T support D-RTK2 mobile station?	Yes. When using D-RTK2, switch to Mode 5 - Broadcast Mode
9	Does M3E/T support M2 series accessories?	Not supported
10	Does the M3E/T support controlling the YAW angle of the gimbal?	Not supported
11	Does the M3E/T support PPK?	M3E supports to save original satellite observation files for PPK processing which requires third-party PPK processing software.
12	Does M3E/T support PSDK?	Not supported at launch. Will be supported in later firmware updates.

# FAQ

Index	Questions	Answers
13	Does M3E Series support Remote ID in US?	Remote ID will be supported via firmware updates.
14	Does M3E Series support AirSense (ADS-B in)?	Yes
15	How can you turn the beacon on?	Go to Common settings -> LED settings -> Navigation Beacon On/Off
16	What are the options to save photos for the M3E and M3T?	<p>For M3E, you can only select to save wide or zoom photos, and can not save zoom + wide at the same time</p> <p>For the M3T, you can select to save Current view, Visual camera (wide or zoom), and infrared at the same time. Current view saves photos taken with current cameras, and it can save the screenshot in SBS mode.</p>
17	Does M3E Series support AI Spot Check?	Not Supported
18	Does M3E Series support Live Mission Recording?	Yes



# DJI Care Enterprise & Maintenance Program

# CONTENTS

**1 DJI Care Enterprise for DJI Mavic 3 Enterprise Series**

**2 DJI Enterprise Maintenance Program for DJI**

# 1. DJI Care Enterprise

DJI Care Enterprise for DJI Mavic 3 Enterprise Series					
Content	DJI Care Enterprise Basic	DJI Care Enterprise Basic Renew	DJI Care Enterprise Plus	DJI Care Enterprise Plus Renew	DJI Care Enterprise Basic (2-Year Plan)
Service Period	The 1 <sup>st</sup> year	The 2 <sup>nd</sup> year	The 1 <sup>st</sup> year	The 2 <sup>nd</sup> year	2 years
Service	Two low-price replacements for one year	One low-price replacement for one year	Unlimited free repair and replacement services within the coverage amount for one year	Unlimited free repair and replacement services within the coverage amount for one year	Three low-price replacements for two year
Covered Areas	Mainland China, Hong Kong, Japan, AU, EU, UK, USA, Canada, and Korea				
DJI Care Express	Supported	Supported	/	/	Supported
Covered Parts	aircraft body, camera and gimbal bound with the current aircraft, propellers, battery, DJI RC Pro Enterprise				
Additional Service	One free maintenance service <sup>[1]</sup>	Extended Warranty Period <sup>[2]</sup>	One free maintenance service <sup>[1]</sup>	/	One free maintenance service <sup>[1]</sup> , Extended Warranty Period <sup>[2]</sup>
Price	10% Product RRP	9% Product RRP	20% Product RRP	24% Product RRP	<b>15% Product RRP</b> (Equivalent to 45% Discount on Basic Renew)

## [1] Free Maintenance

JP: one free basic maintenance service; Other Regions: one free standard service; KR, HK: not provided with free maintenance service

## [2] Extended Warranty Period

Within the service period of DJI Care Enterprise Basic Renew or DJI Care Enterprise Basic (2-Year Plan), the official warranty period for your product will be extended by at least 12 months.

(1) Parts with extended warranty period covered by DJI Care Enterprise Basic (2-Year Plan) and DJI Care Enterprise Basic Renew: main controller, vision system, gimbal and camera, propulsion system (excluding the propellers) and DJI RC Pro Enterprise.

(2) For EU and UK users, the warranty period of your product will not be extended.

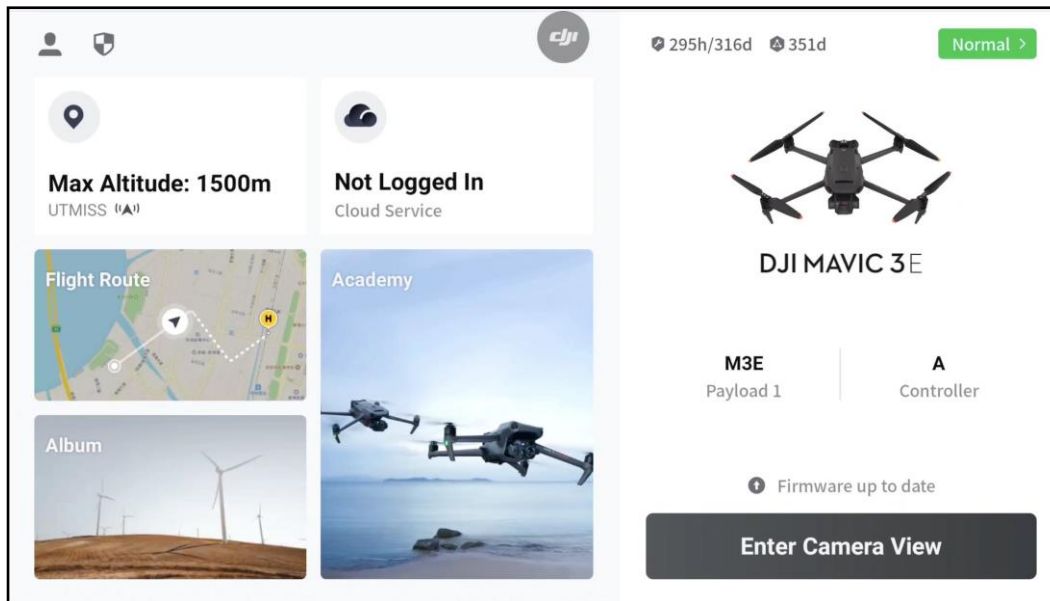
# 1. DJI Care Enterprise – DJI Care Express

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Compared with normal replacement service, the Express option allows users to skip the damage assessment, quotation, and payment confirmation process.



# 1. DJI Care Enterprise – DJI Pilot HMS

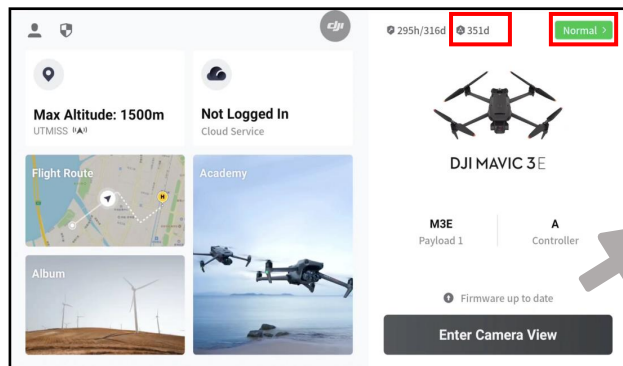


## The service content of DJI Care Enterprise will be displayed in Pilot HMS

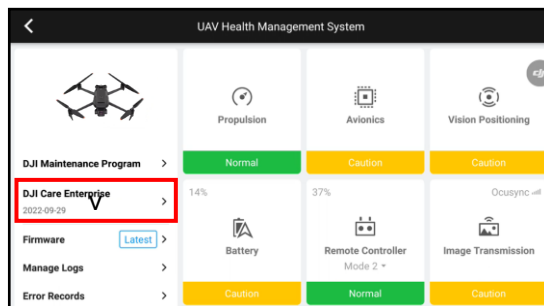
- Update DJI Pilot to the latest version before getting started.
- Enables users to purchase, bind, and use a DJI Care Enterprise series service plan, and to get reminded of the expiry date of the current service plan.



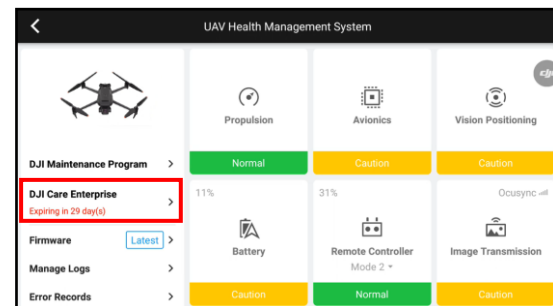
# 1. DJI Care Enterprise – DJI Pilot HMS



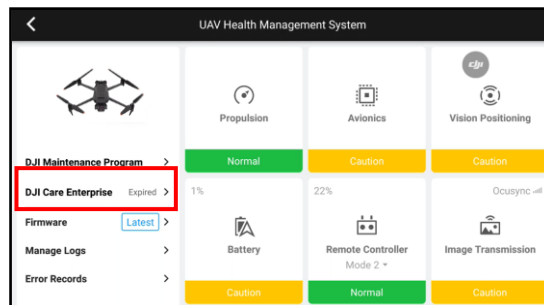
Tap “HMS” on the home page. If the device has been bound with a DJI Enterprise service plan, the coverage status will be displayed in the “DJI Care Enterprise” module.



① If the device has been bound with a DJI Enterprise service plan, the expiration date will be displayed as shown in the picture above.



② For devices that have been bound with a DJI Enterprise service plan, the expiration time displayed in the app turns red with a month of coverage remaining.



③ For devices that have been bound with a DJI Enterprise service plan, if the service plan has expired, it prompts “Expired” at the “DJI Care Enterprise” module.


# 1. DJI Care Enterprise – DJI Pilot HMS

Click “DJI CARE ENTERPRISE”, and then the detailed service info will be displayed.


①: If a device has not yet been bound with a DJI Care Enterprise service plan, and then the detailed service info and purchase link of the plan will be displayed, as well as DJI’s official link for device binding

## DJI CARE ENTERPRISE


Add the service within 72 hours of product activation




User Error




Signal Interference



Collision



Water Damage



Drop damage

### Comprehensive Protection

### Multiple Service Options

<b>DJI Care Enterprise Basic 1-Year Plan</b> <ul style="list-style-type: none"><li>1-Year Validity</li><li>2 Affordable Replacements</li><li>DJI Care Express<sup>1)</sup></li><li>1 Standard Maintenance Service</li></ul>	<b>DJI Care Enterprise Basic 2-Year Plan</b> <ul style="list-style-type: none"><li>2-Year Validity</li><li>3 Affordable Replacements</li><li>DJI Care Express<sup>1)</sup></li><li>1 Standard Maintenance Service</li></ul>	<b>DJI Care Enterprise Plus</b> <ul style="list-style-type: none"><li>1-Year Validity</li><li>Unlimited Number of Free Repairs</li><li>Sharing Coverage<sup>2)</sup></li><li>1 Standard Maintenance Service</li></ul>
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Has the device been activated for more than 72 hours? You can contact [DJI Support](#) for assistance.

[Click to view the FAQ >](#)

1. DJI Care Express: After the replacement fee is paid, DJI will send you the replacement product as soon as we receive the damaged product.


2. Coverage sharing: The coverage limit of multiple devices that are bound with DJI Care Enterprise Plus at the same time can be shared.

[Service Activation](#)[Contact Us](#)

②: If a device has been bound with DJI Care Enterprise, and then the detailed service info, coverage rights, renewal requirements and purchase link of DJI Care Enterprise Renew will be displayed, as well as access to DJI’s official website for device binding, and Online Repair Request.

## Your DJI Care Enterprise


**DJI Mavic 3E**  
1581F5FJD: [REDACTED]



**Covered by DJI Care Enterprise Basic**

Service Validity :2022/07/27 - 2024/07/26

Remaining Replacement :3




**Eligible for DJI Care Enterprise Basic Renew**

Enjoy one more year of protection, offering 1 more replacement and up to 24-month warranty service.


[Buy Now >](#)

### Exclusive Benefits




**Replacement for Peace of Mind**

For an additional charge, you can have your damaged product replaced if accident occurs, such as collision, and water damage<sup>1)</sup>.




**DJI Care Express**

After the replacement fee is paid, DJI will ship a replacement product as soon as we receive the damaged product.



**Factory Maintenance**


DJI Care Enterprise provides 1 Standard Maintenance Service to keep your device in better condition.



**Warranty Extension**

DJI Care Enterprise Renew extend official warranty for main parts for up to 24 months (in some regions).


### Service Request



**Service Activation**

Activate and bind DJI Care Enterprise


[Activate Now >](#)



**DJI Care Express**

The exclusive privilege of DJI Care users

[Apply Now >](#)




**Repair Service**

Simply pack and ship the product to us

[Apply Now >](#)

DJI CARE ENTERPRISE

 SUPPORT

## 2. DJI Enterprise Maintenance Program

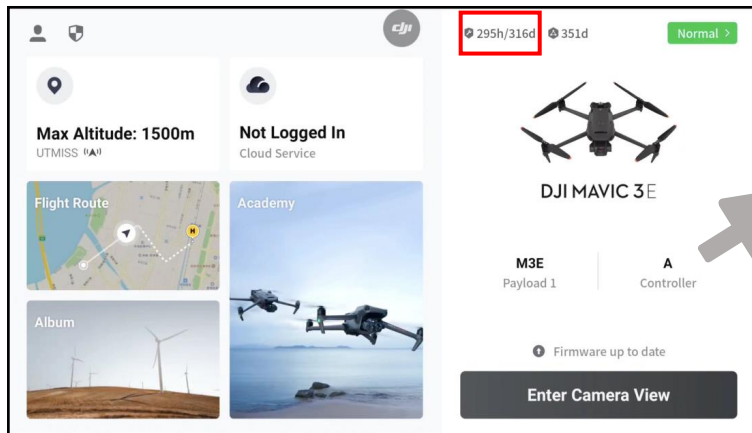
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DJI Enterprise Maintenance Program for DJI Mavic 3 Enterprise Series		
Maintenance Type	Service Items	Maintenance Period
Basic Plan	Deep clean, parts inspection, and update & calibration	The actual device condition shall prevail when determining the maintenance period.
Standard Plan	Deep clean, parts inspection, update & calibration, and easily worn parts replacement	Flight time 300 H / year
Premium Plan	Deep clean, parts inspection, update & calibration, easily worn parts replacement, and propulsion system replacement	Flight time 600 H/ three years

\*The recommend maintenance cycle and maintenance type may vary for different regions. Please refer to the local standard as the official recommendation.

\*The need for a maintenance check may be triggered by either the total usage time or the total flight time, whichever comes first.

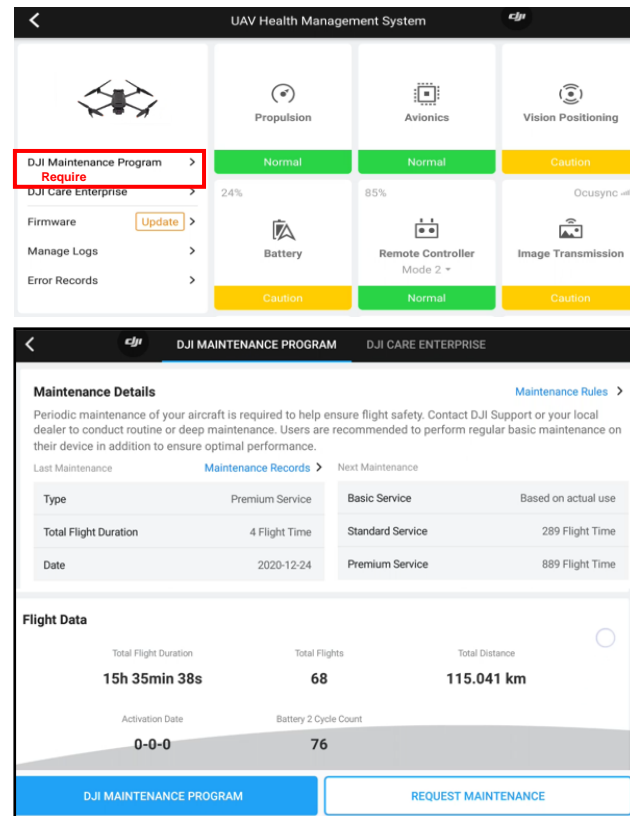
## 2. DJI Enterprise Maintenance Program – DJI Pilot HMS



Standard Service : Yellow reminder 7 days/50 Flight Time in advance

Premium Service : Yellow reminder 30 days/100 Flight Time in advance

Standard Service and Premium: If a device is not inspected on time, the app will prompt "XX h Exceeded" in red at the related maintenance service.



THANKS!

