

MATRICE 400



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59-MINUTE FLIGHT TIME ^[1]

Industry-leading endurance for extended missions and operations.



UP TO 6 KG PAYLOAD CAPACITY ^[2]

Carry more. Do more. Maximize mission versatility.



INTEGRATED LIDAR & MMWAVE RADAR ^[3]

Power-line-level obstacle sensing for unmatched situational awareness.



ENHANCED VIDEO TRANSMISSION ^[4]

O4 Enterprise for stable, high-quality view in complex environments.

With Smart Detection, visible and thermal imaging, AR projection, ship-based takeoff/landing, and advanced automation, Matrice 400 excels in emergency response, power inspections, mapping, and AEC.



EXTENDED FLIGHT TIME, HIGH SPEED PERFORMANCE



Industry-leading endurance and speed for extended missions and high-performance operations.



UP TO 6KG ^[2] PAYLOAD CAPACITY



Carry more. Do more.
Maximize mission versatility.



SAFE AND RELIABLE FLIGHT



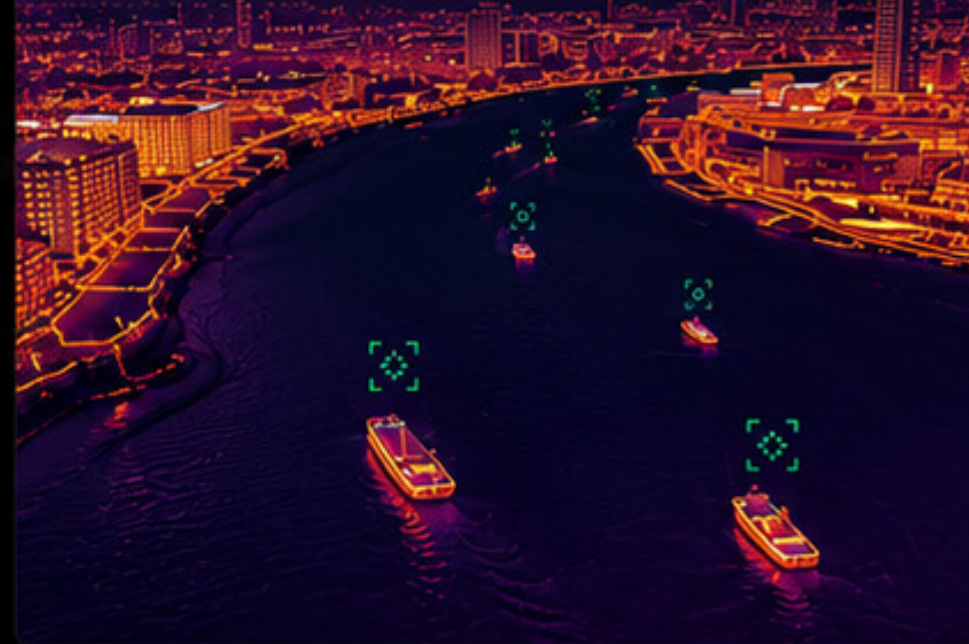
Built for safety with advanced redundancy, robust systems, and reliable performance.



ENHANCED INTELLIGENCE AND EFFICIENCY



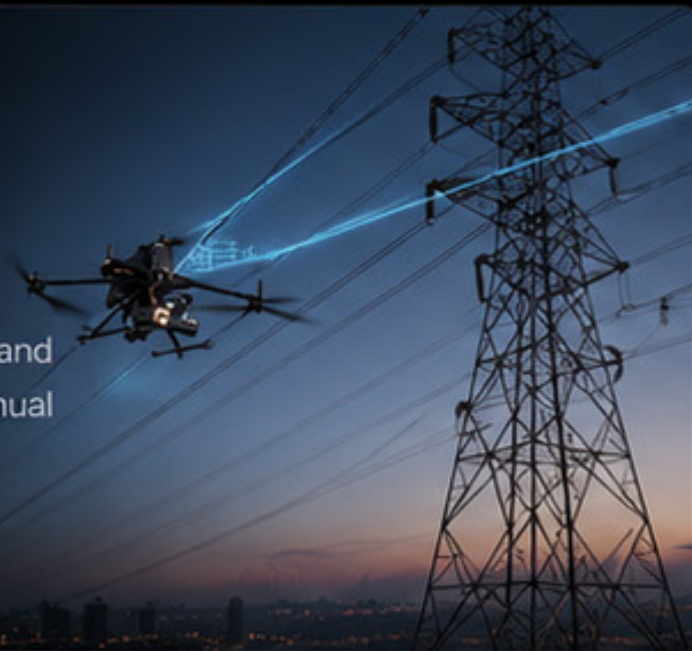
Advanced sensing and AI capabilities empower smarter decisions and more efficient operations.



AUTOMATED OPERATIONS



Streamlined workflows and automation reduce manual effort and increase operational efficiency.



COMPREHENSIVE ACCESSORY UPGRADES



Versatile accessories designed to adapt to evolving mission requirements.



DJI CARE ENTERPRISE



Comprehensive service and support to keep your operations running with confidence.



59-MINUTE
FLIGHT TIME ^[1]



UP TO 6KG ^[2]
PAYLOAD CAPACITY



INTEGRATED LiDAR &
MMWAVE RADAR ^[3]



ENHANCED VIDEO
TRANSMISSION ^[4]



SAFE. RELIABLE.
BUILT TO PERFORM.

Extended Flight Time, High Speed Performance

Matrice 400's flight capabilities are outstanding, offering up to 59 minutes of forward flight time even with a payload, and up to 53 minutes of hovering duration ^[6]. These capabilities make it a reliable tool for long-duration and continuous operations such as search and rescue, firefighting, and large-scale mapping. It can also avoid large obstacles ^[3] like buildings and mountains at flight speeds of up to 25 m/s.



UP TO
59 MINS
Forward Flight Time



UP TO
25 M/S
Flight Speed



Multi-Payload, Multi-Scene

Matrice 400's strong payload capacity allows it to easily meet the demands of a wide range of applications. With a maximum payload capacity of 6 kg^[2], Matrice 400 supports seamless switching between a single downward gimbal^[8] and a dual downward gimbal^[8]. It also features a third gimbal connector on the underside for additional flexibility. The aircraft is equipped with 4 external E-Port V2 ports^[7], enabling simultaneous mounting of up to 7 payloads.



Up to 6 kg^[2]

Maximum payload capacity



Single Downward Gimbal^[8]

Quick-switch capability for mission flexibility



Dual Downward Gimbal^[8]

Enhanced perception for complex operations



Third Gimbal Connector

Additional flexibility for custom configurations



4x E-Port V2^[7]

Simultaneous mounting of up to 7 payloads

Depending on the task, Matrice 400 can be equipped with the **Zenmuse H30 Series, L2, P1, S1 Spotlight, V1 Speaker, Manifold 3**, or third-party payloads, thereby expanding its capabilities and unlocking the full potential of the DJI ecosystem.



Zenmuse H30 Series ^[8]

The Zenmuse H30 Series integrates five major modules—a wide-angle camera, a zoom camera, an infrared thermal camera, a laser range finder, and an IR auxiliary light. Employing cutting-edge intelligent algorithms, it revolutionizes perception and imaging standards, transcending the limitations of day and night vision.



Zenmuse L2 ^[8]

Zenmuse L2 features a 1535nm long-range LiDAR, dual 100MP RGB mapping cameras, and a high-precision POS system. It can be mounted on Matrice 400 using the Zenmuse L3 single gimbal connector, accelerating geospatial data acquisition.



Zenmuse P1 ^[8]

Zenmuse P1 integrates a full-frame sensor with interchangeable fixed-focus lenses on a 3-axis stabilized gimbal. Designed for photogrammetry flight missions, it takes efficiency and accuracy to a whole new level.



Zenmuse S1 ^[8]

Zenmuse S1 is DJI's first spotlight designed for multi-payload drone platforms. Utilizing the LEP technology, it offers high brightness and long illumination distance, and supports multiple lighting modes. This makes it ideal for public safety, emergency rescue, inspection, and other nighttime operations.



Zenmuse V1 ^[8]

Zenmuse V1 is DJI's first loudspeaker designed for multi-payload drone platforms. It boasts high volume and long broadcast distance, and supports multiple broadcast modes, making it ideal for scenarios like public safety, emergency rescue, and more.



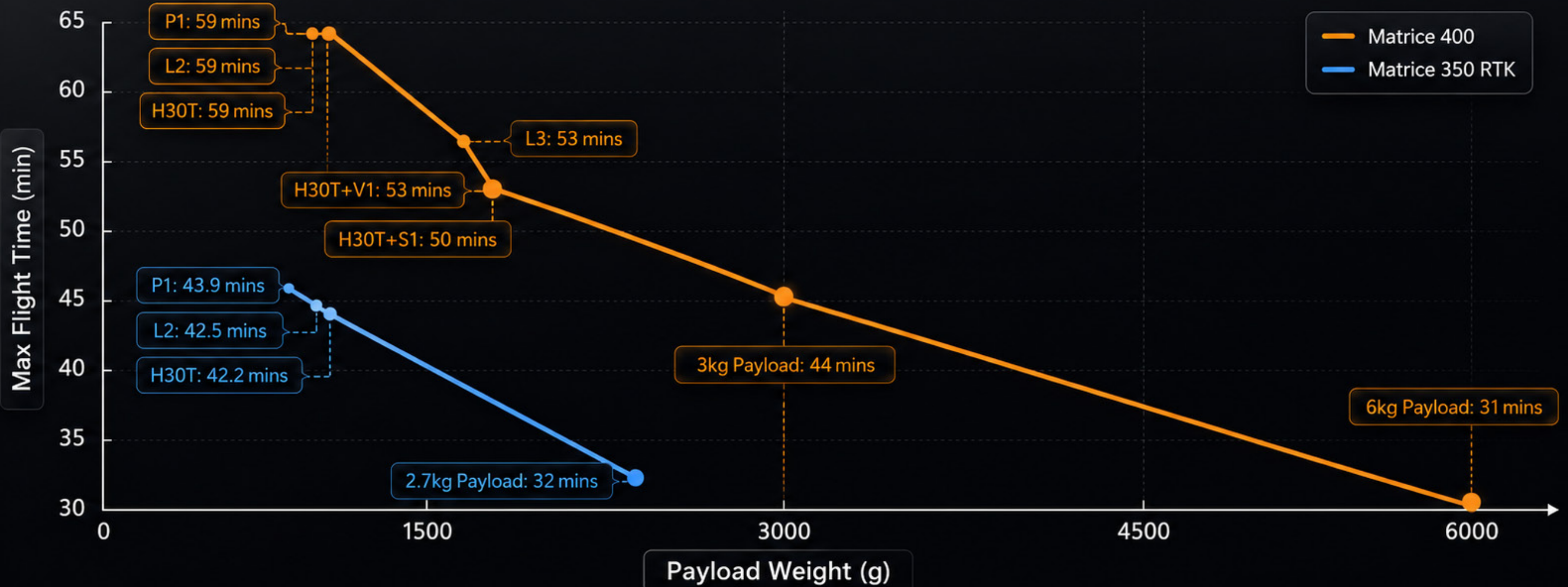
Manifold 3 ^[8]

Manifold 3 packs an impressive 100 TOPS of computing power into a compact unit weighing about 120 g. It can be mounted onto Matrice 400 drone platform, optimizing efficiency across various operational missions with its robust processing.

[8] Requires Matrice 400 parachute system.

Flight Time ^[21]

Estimate the **Matrice 400's** flight time based on payload configuration.



Note: Data measured in controlled environment. Actual flight time may vary based on wind, temperature, altitude, and other environmental factors.



Safe and Reliable Flight

Matrice 400 has a protection rating of IP55^[9], allowing it to operate reliably in challenging conditions including heavy dust or rain. It also maintains stable performance across temperatures from -20° to 50° C (-4° to 122° F), delivering consistent results in both hot and cold conditions.



Power-Line-Level Obstacle Sensing^[3]

The Matrice 400's advanced obstacle sensing system integrates rotating LiDAR, high-precision mmWave radar, and full-color low-light fisheye vision sensors^[13], pushing detection capabilities to unprecedented levels. The system detects even small obstacles like high-voltage power lines across mountainous terrain – even in darkness^[3]. It can penetrate rain and fog to sense its surroundings, providing enhanced safety in challenging weather conditions.



Airborne Relay Video Transmission^[5]

Matrice 400 has a built-in video transmission relay module. With this setup, one Matrice 400 can serve as a relay drone, flying high to provide relay signals for another Matrice 400 operating at a greater distance. This capability significantly extends the transmission range, making it ideal for search and rescue tasks as well as inspections in mountainous areas.



O4 Enterprise Enhanced Video Transmission System^[10]

Thanks to the ten-antenna system on the aircraft and the high-gain phased array antenna system on the remote controller, the O4 Enterprise Enhanced Video Transmission System can achieve image transmission up to 40 km^[10].
Matrice 400 also supports the sub2G frequency band^[5], and when equipped with two DJI Cellular Dongle 2^[11], it can automatically switch to the better available carrier network, providing a more stable signal even in urban interference environments or remote regions.



Aircraft Fusion Positioning^[12]


The omnidirectional sensing performance^[12] brought by rotating LiDAR, high-precision mmWave radar, and full-color low-light fisheye vision sensors provides Matrice 400 with strong positioning capabilities. It can fly stably close to glass-facade buildings or wind turbine blades and safely return from building edges, mountain bases, or bridge sides even when the return point has not been updated.



Full-Color Vision Assist^[13]

The four full-color low-light fisheye vision sensors on the aircraft provide Full-Color Vision Assist^[13] to ensure safer flight.



 * Full-color low-light fisheye vision sensors are effective in low-light conditions. Performance may vary depending on the environment.

Note: Data measured in controlled environment. Actual performance may vary based on wind, temperature, altitude, and other environmental factors.

Enhanced Intelligence and Efficiency

With Zenmuse H30 Series' visible and thermal imaging, Matrice 400 can detect vehicles, vessels, and subjects during search and rescue operations or routine flights. It also supports switching to other models, enabling the expansion of application scenarios. Additionally, it supports high-res grid photos and features powerful tracking capabilities.



Smart Detection ^[14]

Detects vehicles, vessels, and subjects for search and rescue or routine operations.



Supports Switching

Supports switching to other models, expanding application scenarios.



High-Res Grid Photos

Supports high-res grid photos for detailed mapping and documentation.



Powerful Tracking

Features powerful tracking capabilities for moving targets.



Intelligent Performance

Advanced sensing and imaging deliver smarter decisions and higher efficiency.



Smart AR Projection

GNSS 30 RC 4G 82% 51.5V



When operating during the day or night in urban regions, the remote controller can display the names of buildings and landmarks in real-time, marking core roads with prominent lines.

Easier Automated Operations



Power Line Follow

30:19

Power Line Follow in progress
Power Line Follow altitude: 30 m

Color VC
Height 73.5GB

Power Line Follow

RNG

Cruise

SBS

Visible Light

WS 02.1 \nearrow -7.0°

SPD 10.0 m/s

APAS

166

686.1m

-0.2 VS

059.1 ALT m

1639.8 ASL

FPV



Power Line Follow with Zenmuse L3/L2

When Matrice 400 is equipped with the L3 (via the Zenmuse L3 single gimbal connector) or L2 LiDAR system, it can perform automated power transmission and distribution line following flights. The onboard rotating LiDAR detects obstacles in real time, allowing the drone to automatically bypass crossing lines.



Slope Route

Automatically adapts to terrain elevation changes for safer, smoother flights.



Geometric Route

Supports pre-planned waypoint missions with precise and efficient execution.



Automated Line Following

Reduces manual operations and improves efficiency



Real-time Obstacle Avoidance

Rotating LiDAR detects and bypasses crossing lines automatically



High Accuracy

Precise data capture for inspection and maintenance



Safe and Reliable

Enhances operational safety in complex environments

Comprehensive Accessory Upgrades ^[17]



DJI RC Plus 2 Enterprise Enhanced

DJI RC Plus 2 Enterprise Enhanced Remote Controller features a new high-brightness screen that remains clearly visible even in direct sunlight. It has an IP54 protection rating and can operate in temperatures ranging from -20° to 50° C (-4° to 122° F). Equipped with the O4 Enterprise Enhanced Video Transmission, it features a built-in high-gain antenna array, providing strong performance. It also supports the sub2G module and 4G hybrid transmission solutions, ensuring stable and smooth video feeds in both urban high-rise and mountainous environments.

[Buy Now](#)



DJI RC Plus 2
Enterprise Enhanced



DJI Cellular
Dongle 2 ^[11]



TB100
Battery



TB100C
Tethered Battery



BS100 Intelligent
Battery Station



D-RTK 3
Multifunctional Station



Enterprise-Grade Reliability

Built for demanding missions in all environments.



Flexible Connectivity

Supports sub2G and 4G hybrid transmission solutions.



Wide Temperature Range

Operates reliably from -20° to 50° C (-4° to 122° F).



IP54 Protection

Dust and water resistant for reliable outdoor performance.



Powerful & Efficient

Intelligent power solutions for extended operation time.



Comprehensive Ecosystem

A complete suite of accessories for every mission need.

Open Developer Ecosystem



Intelligent Algorithm Developer

Provides the necessary model training tools and third-party developer certification process to access onboard computing capability, helping to expand new application fields for drones.

[Learn More](#)



PSDK

The newly upgraded E-Port V2 supports USB 3.0 high-speed payload communication and delivers up to 120 watts of power per port. The E4 port of the E-Port V2 can be expanded into four payload ports via the E-Port Hub expansion plate, unlocking broader application scenarios and greater potential for the Matrice 400.

[Learn More](#)



MSDK

Mobile SDK 5 simplifies the development of apps to control the Matrice 400. It comes with fully open-source, production-level code samples with core modules adapted from DJI Pilot 2, guaranteeing high reliability.

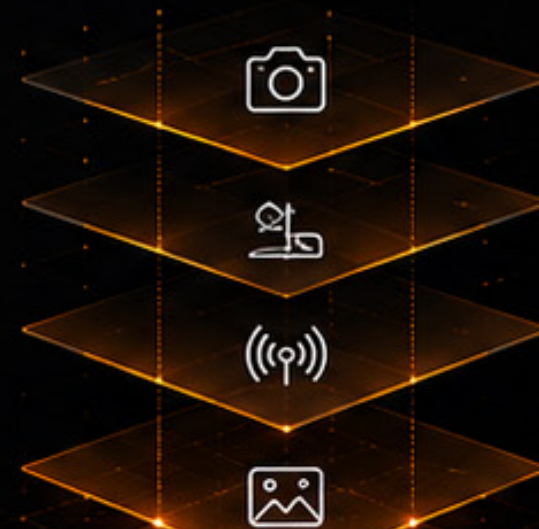
[Learn More](#)



Cloud API

With DJI Pilot 2's built-in Cloud API (MQTT-based protocol), you can directly connect the Matrice 400 to third-party cloud platforms. Access the drone's hardware, video live-stream, and photo data without having to develop an app.

[Learn More](#)

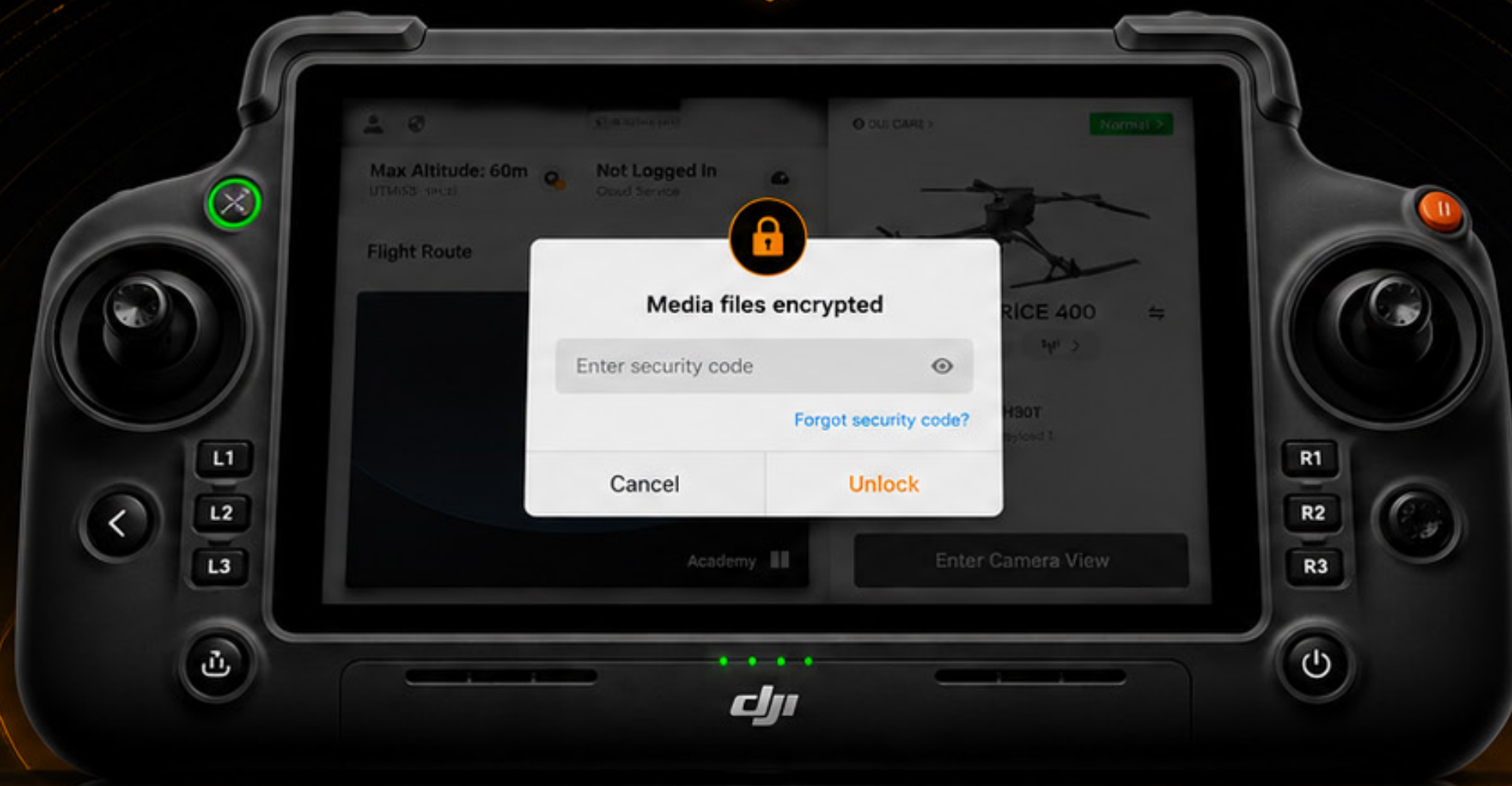


Open Data Access

Developers can leverage payload, LiDAR, mmWave radar, and vision sensor data interfaces to build innovative applications and expand the DJI ecosystem.

[Learn More](#)

User Data Security



Media Data Encryption

Encrypts photos, videos and other media files to prevent unauthorized access.



Local Data Mode

Keeps data on the device only and prevents it from being uploaded or synced.



One-Tap Clear Logs

Clears all device logs and records instantly with a single tap.



AES-256 Video Transmission Encryption

Industry-standard encryption protects video transmission for secure operations.



Cloud API

Securely connect and manage data through DJI's cloud services and APIs.

Get **1 Year** of DJI Care Enterprise Plus or 1 Year of Official Extended Warranty Service for **Free** ^[20]

DJI CARE ENTERPRISE PLUS

Comprehensive Protection | Professional Quality Assurance | Exclusive Service | Service Starts with Activation



Free Repairs

Unlimited number of free repairs within the coverage limit



Battery Replacement

1 battery per year, long-lasting runtime



Coverage for Your Whole Fleet

Shared limit for maximum protection



Free Two-Way Shipping

Free mail-in repairs, hassle-free service



Expert Service

Rapid response from DJI product experts



Full Device Coverage

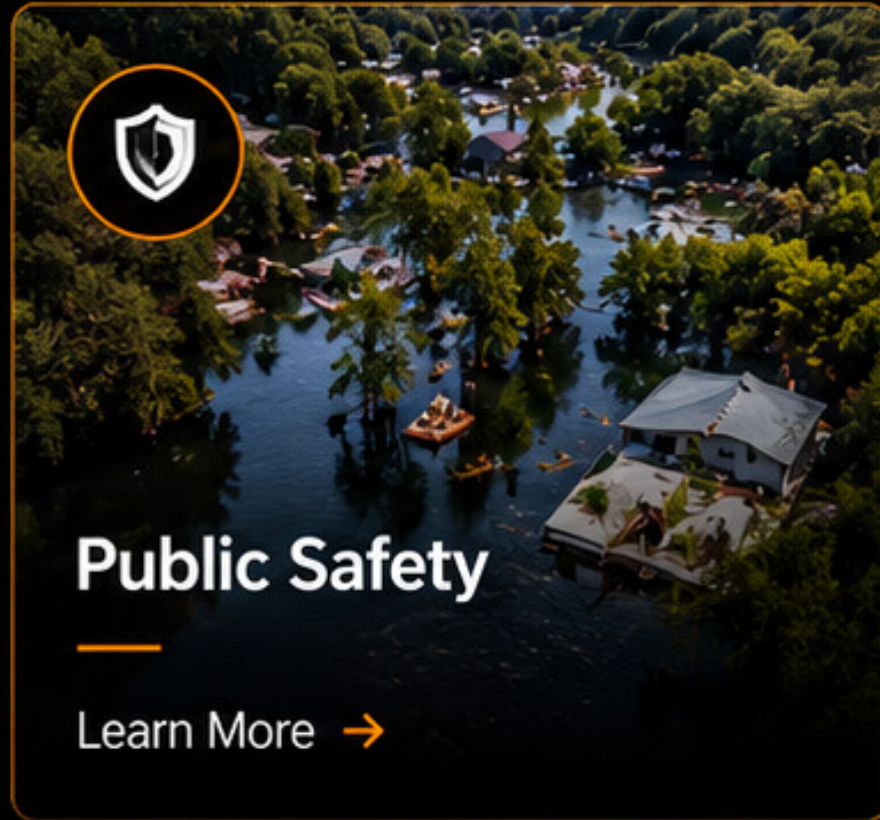
Worry-free support for every mission




EXTENDED WARRANTY SERVICE

In addition to the standard warranty, an extra 1-year warranty service is provided. Major parts are covered by the official warranty, with support provided by our professional engineers.

Application **Scenarios**




Public Safety
Learn More →




Power Line Inspection
Learn More →



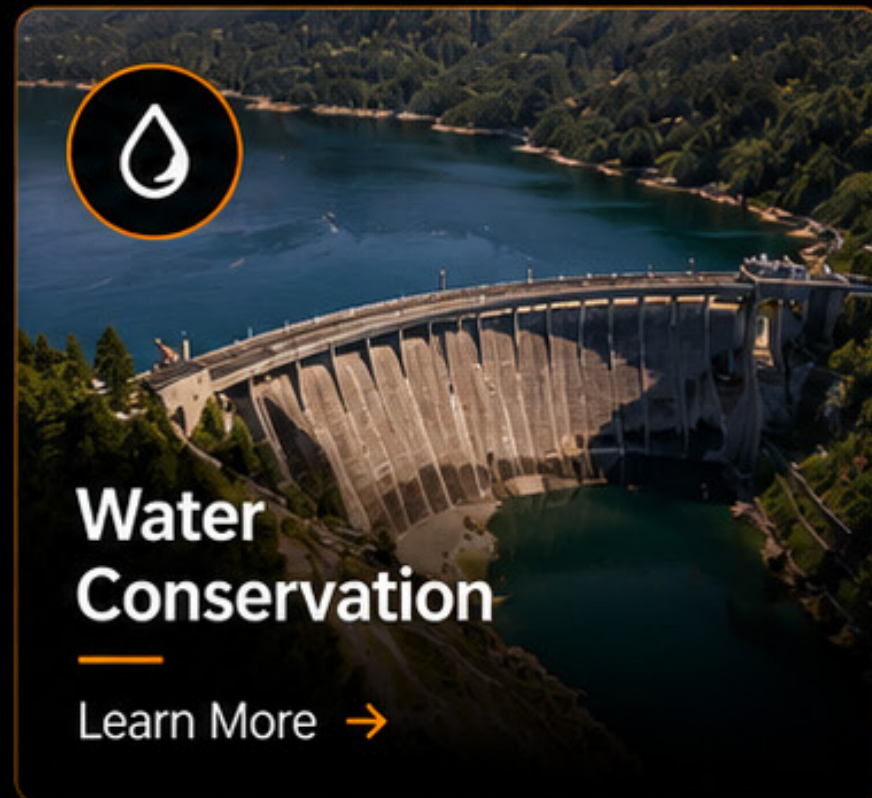

Geographic Information
Learn More →




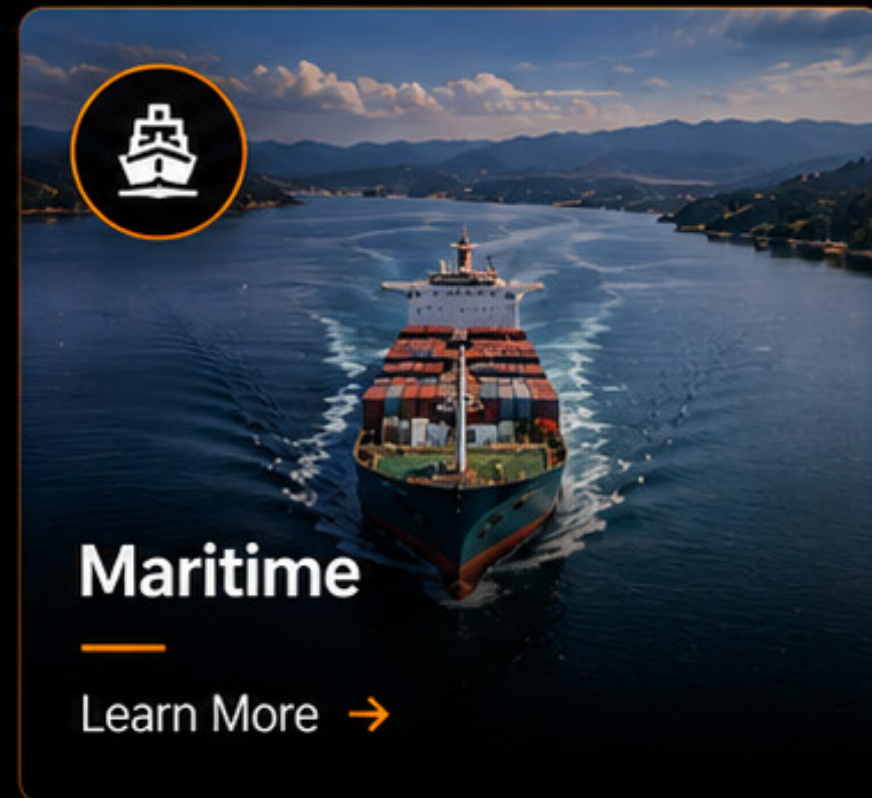

Oil and Natural Gas
Learn More →




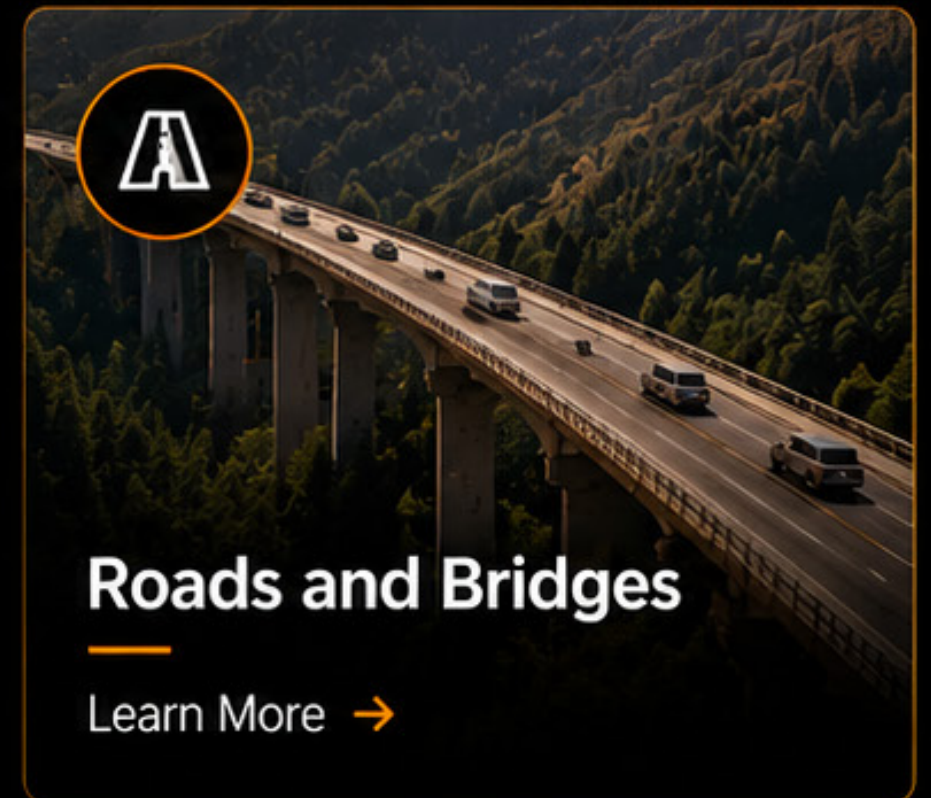

Renewable Energy
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Maritime
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✉ hello@xboom.in

🌐 www.xboom.in

☎ 084478 31821



Bangalore:
V Plaza, 24th Main Rd, 1st Sector,
HSR Layout, Bengaluru,
Karnataka 560102