

dji DOCK 3





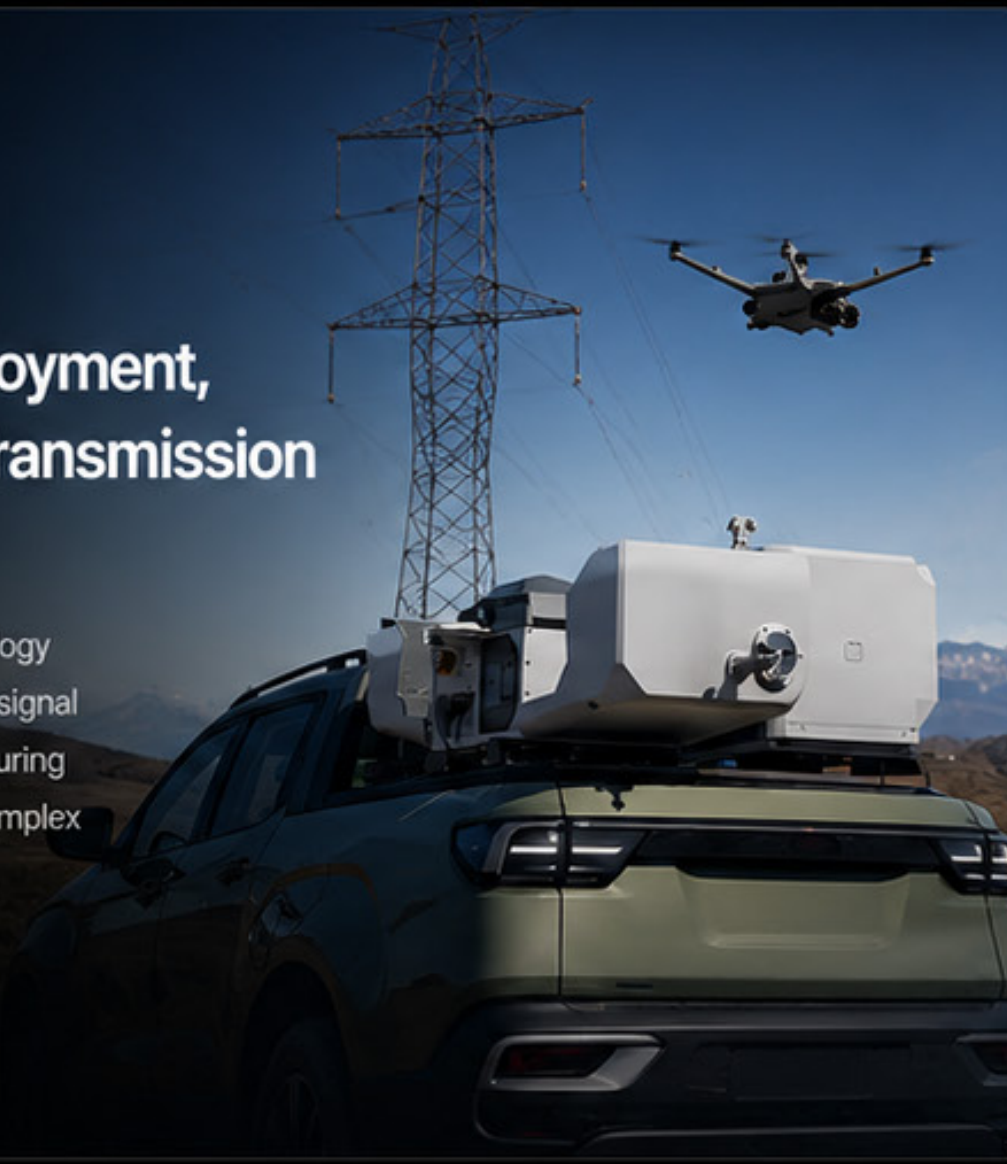
Master All Environments

Engineered to perform in the harshest conditions. Waterproof, dustproof, and built to operate seamlessly—rain or shine, heat or cold.



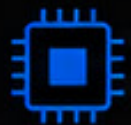
Flexible Deployment, Ultra-Long Transmission

O4 transmission technology delivers a stable, strong signal over long distances, ensuring reliable connection in complex environments.



High-Performance Drones

Powerful propulsion, wind resistance, and advanced flight control enable outstanding performance in any mission.



Efficient Operation with Intelligent Features

Smart features and automation tools simplify complex tasks and improve mission efficiency.



Enhanced Experience With Advanced Software

Intuitive interfaces and powerful analytics provide real-time insights to support faster, smarter decisions.



Secure and Compliant, Open Ecosystem

Built with security and compliance at the core while maintaining an open ecosystem for seamless integration and scalability.



DJI Care Enterprise

Comprehensive protection and professional support to keep your operations running smoothly.





HEAT RESISTANT

Built to withstand extreme heat, DJI Dock 3 operates and charges seamlessly even in temperatures soaring up to 50° C (122° F), ensuring efficient operations.

50°c

Highest Operating Temperature



COLD RESISTANT

Perform critical tasks reliably despite frigid temperatures in environments where temperatures can plunge below -20° C (-4° F). After preheating, it can operate stably in harsh environments as low as -30° C (-22° F).

-30°c

Lowest Operating Temperature



WIND RESISTANCE

Both Matrice 4D and 4TD demonstrate remarkable flight performance. In winds as strong as 12 m/s, they can achieve stable takeoff and landing, and stay in the air for up to 32 minutes. ^[1]

12 m/s

Max Wind Speed Resistance



RUGGED AND DEPENDABLE

Dock 3's design safeguards its internal systems from external conditions by encapsulating electronic components, allowing for seamless operations even in harsh environments.

IP56

DJI Dock 3 ^[2]

IP55

DJI Matrice 4D/4TD ^[2]



LOW-NOISE AND ANTI-ICE PROPELLERS

Standard equipped with low-noise anti-ice propellers, the Matrice 4D and 4TD drones can maintain stable flight even in freezing rain. The silent design reduces noise during operations.

DJI DOCK 3

Flexible Deployment, Ultra-Long Transmission

DJI Dock 3 can be flexibly deployed, redefining the paradigm of operations. For fixed deployments, signal quality can be enhanced by installing the next-gen D-RTK 3 Relay at elevated locations, allowing for flexible site selection of the dock. With the new DJI Enterprise app, deployment can be completed using just a smartphone.^[3] Additionally, for the first time, a DJI Dock supports vehicle-mounted deployment, enabling more efficient dispatch during urgent operations and long-distance inspections.



Flexible Site Selection

Install D-RTK 3 Relay at elevated locations



Easy Deployment

Complete deployment with just a smartphone



Vehicle-Mounted Deployment

Enables efficient dispatch and rapid response



Long-Distance Transmission

Supports stable connectivity for long-range operations

Fixed-Mounted Deployment

The new D-RTK 3 Relay Fixed Deployment Version [4] offers superior anti-interference performance for video transmission and satellite acquisition. Installing it at elevated locations can effectively address RTK and video transmission signal issues caused by obstructions, extending the maximum transmission distance to 25 km. This capability allows for flexible site selection of Dock 3 based on actual operational needs.



Near High-Rise Buildings [30]

Installing the D-RTK 3 Relay on rooftops can significantly enhance signal quality, allowing Dock 3 to be deployed next to high-rise buildings or substation walls.



Near Communication Towers [5] [30]

Deploying the D-RTK 3 Relay on a nearby communication tower can significantly enhance signal quality during Dock 3 operations, ensuring safe takeoffs and landings even in environments with interferences from the communication tower.

High-Performance Drones

The all-new water and dust-resistant DJI Matrice 4D and 4TD are specifically designed for DJI Dock 3, offering extended flight time, and can pair with DJI RC Plus 2 Enterprise for standalone use.



Extended Flight Time

Longer missions, greater efficiency.



Versatile Imaging System

Wide-angle camera, medium tele camera, tele camera and Laser Range Finder.



Water and Dust Resistance

Built to withstand harsh environments.



Advanced Thermal & NIR

Infrared thermal camera and new NIR auxiliary light for more scenarios.



Wide Range of Applications

Ideal for infrastructure inspections, emergency response, public safety, and more.

Both drones are equipped with a wide-angle camera, a medium tele camera, a tele camera and a Laser Range Finder. Matrice 4D is highly effective for professional high-precision mapping and detailed surface inspections. Matrice 4TD is equipped with an infrared thermal camera and a new NIR auxiliary light, making it suitable for a wide range of applications such as infrastructure inspections, emergency response, and public safety.



IP55

Water & Dust Resistance



54 min

Max Flight Time ^[1]



10 km

Max Transmission Range ^[2]



-20° to 50° C

Operating Temperature

SPECIFICATIONS



Wide-Angle Camera

- 4/3 CMOS
- 20MP Effective Pixels
- f/2.8-f/11
- 24mm Format Equivalent
- Mechanical Shutter



Medium Tele Camera

- 1/1.3-inch CMOS
- 48MP Effective Pixels
- f/2.8
- 70mm Format Equivalent



Tele Camera

- 1/1.5-inch CMOS
- 48MP Effective Pixels
- f/2.8
- 168mm Format Equivalent



Laser Range Finder

- Measurement Range: 1800 m (1 Hz)
- Oblique Incidence Range (1: 5 Oblique Distance): 600 m (1 Hz)
- Blind Zone: 1 m
- Range Accuracy (m): $\pm (0.2 + 0.0015 \times D)$ [7]



High Precision

Accurate data capture for critical missions



All-Weather Reliability

Built for demanding environments



Multi-Sensor System

Wide, medium tele, tele cameras & LRF



Efficient Operations

Extended flight time and high operational efficiency

DJI MATRICE 4D

Advanced multi-sensor imaging system designed for professional mapping, inspection, and mission-critical operations.

KEY SPECIFICATIONS



Wide-Angle Camera

- 1/1.3-inch CMOS
- 48MP Effective Pixels
- f/1.7
- 24mm Format Equivalent



Medium Tele Camera

- 1/1.3-inch CMOS
- 48MP Effective Pixels
- f/2.8
- 70mm Format Equivalent



Tele Camera

- 1/1.5-inch CMOS
- 48MP Effective Pixels
- f/2.8
- 168mm Format Equivalent



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NIR Auxiliary Light [9]

- 6° FOV, 100m [10] Illumination Distance



Infrared Thermal Camera [8]

- 640×512 Resolution
- f/1.0
- 53mm Format Equivalent
- Uncooled VOx Microbolometer
- Supports UHR Infrared Image mode



DJI MATRICE 4TD

An advanced multi-sensor imaging system that redefines aerial intelligence for mission-critical operations. See farther. Measure smarter. Act with confidence.



Multi-Sensor Precision

Six integrated sensors for comprehensive situational awareness



Long-Range Capability

1800 m laser range finder for accurate distance measurement



All-Condition Performance

NIR auxiliary light and thermal imaging for day & night operations



Reliable & Robust

Engineered for demanding missions in any environment

SEAMLESS AIRBORNE RELAY FOR MOUNTAINOUS TERRAINS

Matrice 4D Series can operate with the DJI RC Plus 2 Enterprise remote controller for standalone use while featuring an innovative onboard relay function. With this setup, one drone can fly high as a relay, allowing another drone to operate at a greater distance. The relay drone automatically faces the operating drone,^[5] ensuring smooth video transmission without a 4G signal or in obstructed conditions.^[19] This capability significantly extends the transmission range, making it ideal for SAR tasks and inspections in mountainous areas.



INNOVATIVE ONBOARD RELAY

One drone acts as a relay to extend transmission range.



EXTENDED RANGE

Maintain stable video transmission over long distances and obstructed areas.



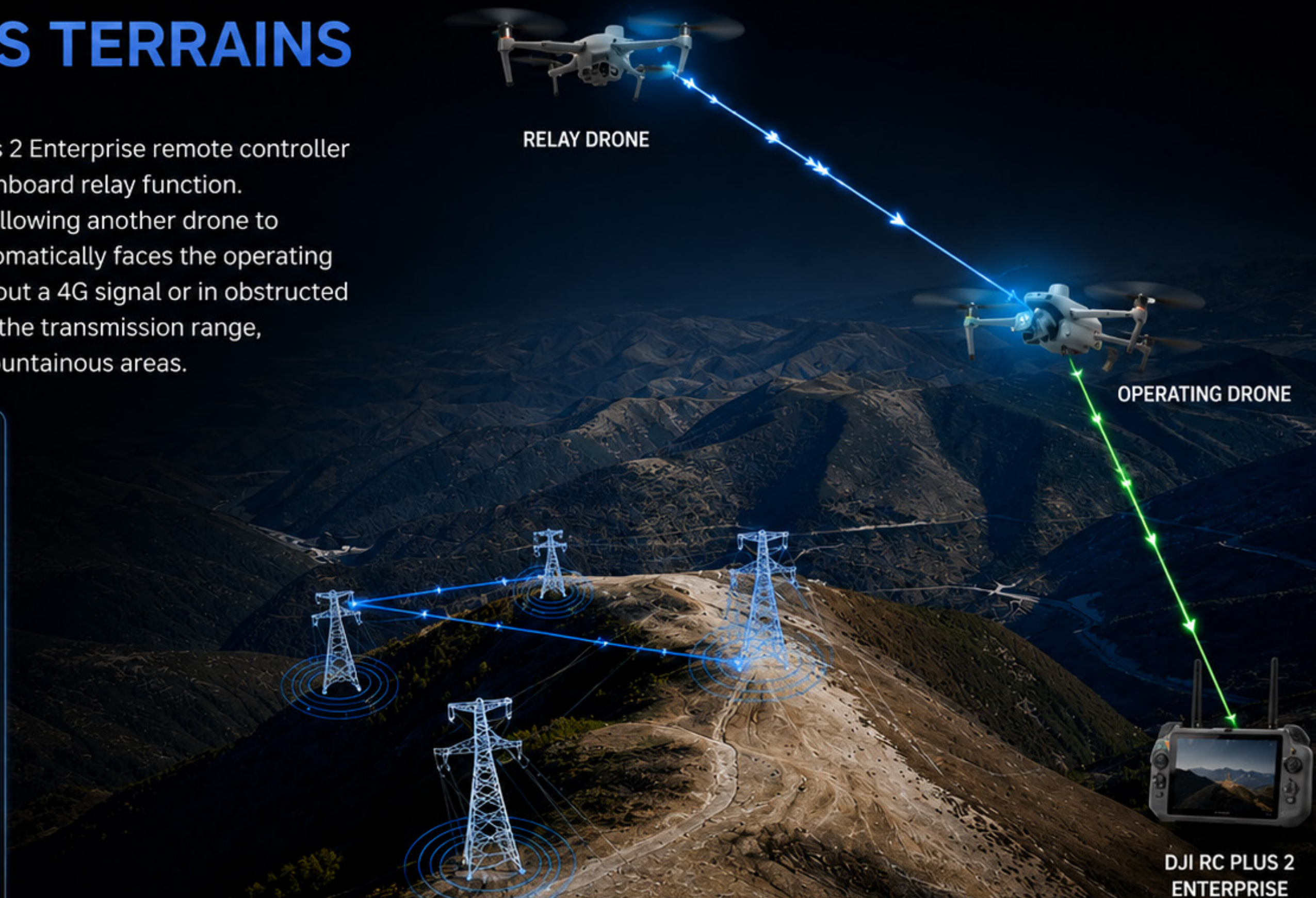
BUILT FOR MOUNTAINS

Reliable performance in complex, high-altitude environments.



IDEAL FOR CRITICAL MISSIONS

Perfect for SAR operations and infrastructure inspections.



RELAY DRONE

OPERATING DRONE

DJI RC PLUS 2
ENTERPRISE

OBSTACLE SENSING FOR SAFE OPERATION

The Obstacle Sensing Module ^[4] for Matrice 4D/4TD combines rotating LiDAR and millimeter-wave radar technologies for precise 12mm wire-level obstacle avoidance at speeds up to 15 m/s in complex power line crossings, as well as enhanced positioning in low-light conditions. ^[5] Operational safety are ensured for varying environments of power distribution network and the intricate layouts of substations. ^[15]



PRECISION OBSTACLE AVOIDANCE

12mm wire-level detection with rotating LiDAR and millimeter-wave radar.



HIGH-SPEED RELIABILITY

Accurate obstacle sensing at speeds up to 15 m/s.



LOW-LIGHT PERFORMANCE

Enhanced positioning and obstacle detection in low-light conditions.



OPERATIONAL SAFETY

Ensures safe operations in complex power networks and substation environments.



Open Ecosystem, Breaking Boundaries



Intelligent Algorithm Developer

Provides necessary model training tools and assist in the third-party developer certification process, helping expand new intelligent applications. ^[5]

[Learn More](#)



PSDK

E-Port and E-Port Lite encryption authentication ensure secure and worry-free payloads, enabling the Matrice 4D Series to have broader application scenarios.

[Learn More](#)



MSDK

Mobile SDK 5 simplifies the development of apps to control the Matrice 4D Series. Mobile SDK 5 is fully open source and comes with production code samples of core DJI Pilot 2 modules, ensuring its reliability.

[Learn More](#)



Cloud-to-Cloud Coordinated Operation

Through DJI FlightHub 2's FlightHub Sync function, users can easily link it to a third-party cloud platform for flexible management of data.

[Learn More](#)



Cloud API

With DJI Pilot 2's built-in Cloud API (MQTT-based protocol) you can directly connect the Matrice 4D Series to third-party cloud platforms. Access the drone's hardware, video live-stream, and photo data without having to develop an app.

[Learn More](#)



Third-Party Payloads

Enable more functionality by connecting third-party payloads ^[4] such as parachute via the aircraft's E-Port or remotely control added payloads via DJI FlightHub 2. ^[22] It also features an additional port for PSDK payload at the rear.

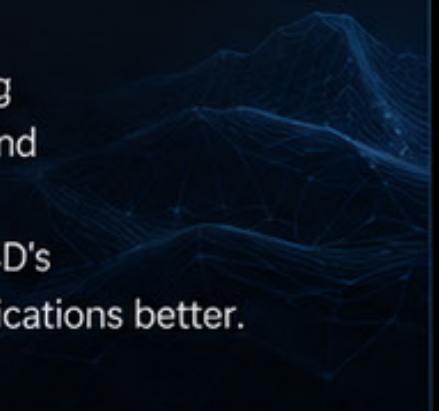
[Learn More](#)



DJI Terra API

With the DJI Terra API, users can integrate its powerful mapping capabilities into their own platforms, achieving automated 2D and 3D reconstructions. Additionally, users can customize photogrammetry workflows as needed, allowing the Matrice 4D's operational results to meet the needs of various industry applications better.

[Learn More](#)



Comprehensive Accessory Upgrades^[23]



FEATURED

D-RTK 3 Relay Fixed Deployment Version

The D-RTK 3 Relay Fixed Deployment Version enables centimeter-level high-precision positioning for drones. Equipped with signal relay functionality, it can effectively address obstruction issues when deployed at elevated locations, significantly enhancing video transmission distance and easing deployment conditions of Dock 3.

[Learn More](#)



D-RTK 3 Relay Fixed Deployment Version



Integrated Broadcasting and Lighting



DJI 240W Power Adapter



Obstacle Sensing Module



DJI RC Plus 2 Enterprise



DJI Matrice 4D Series 240W Charging Hub



Gimbal-Following Spotlight



DJI Cellular Dongle 2 [21]



DJI Power 1000



Real-Time Voice Speaker



Purchase DJI Matrice 4D/4TD Series and Get 1 Year of DJI Care Enterprise Plus or 1 Year of Official Extended Warranty Service for Free ^[29]

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

2 batteries per year, long-lasting runtime



Coverage for Your Whole Fleet

Shared limit for maximum protection



Free Shipping

Free mail-in repairs, hassle-free service



Expert Service

Rapid response from DJI product experts

Extended Warranty Service

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



Official Service

Supported by professional engineers



Quality Repairs

Original parts, guaranteed quality

Application Scenarios



Public Safety

Enhance emergency response and protect communities.

[Learn More →](#)



Powerline Inspection

Improve inspection efficiency and ensure grid reliability.

[Learn More →](#)



Geographic information

Accurate data collection for mapping and analysis.

[Learn More →](#)



Oil and Natural Gas

Monitor infrastructure and minimize operational risks.

[Learn More →](#)



Renewable energy

Optimize performance and support clean energy solutions.

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Roads and bridges

Ensure structural safety and streamline asset management.

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Water Conservancy

Monitor water resources and enhance management.

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Maritime

Support navigation safety and maritime operations.

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