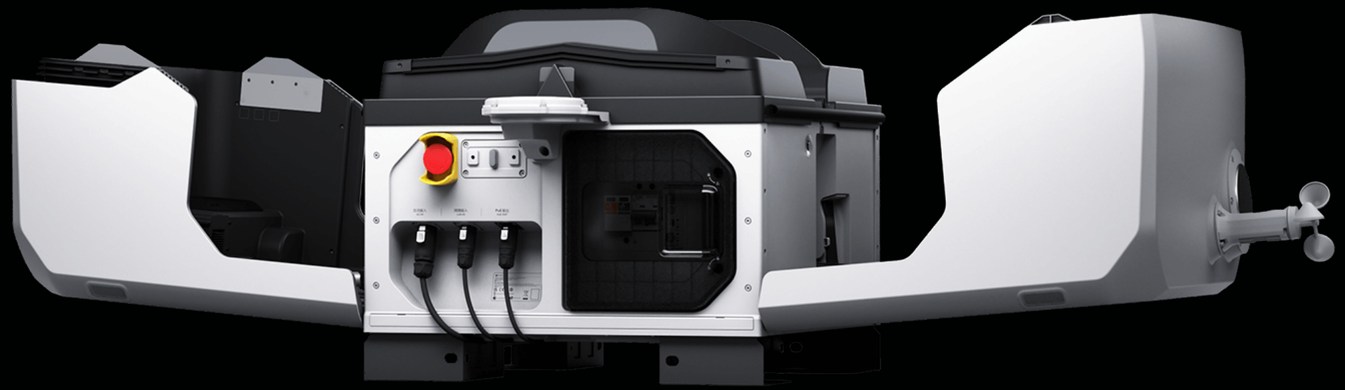
DJI DOCK 3



DJI’s First Dock Adaptable for Vehicle Mounting

Product
Highlight

Equipped with Matrice 4D or Matrice 4TD high-performance drones, DJI Dock 3 empowers 24/7 remote operations and, for the first time, supports mobile vehicle-mounted deployment, effortlessly adapting to various environments. The drones utilize the same cameras as the Matrice 4 Series but offer improved flight and protection performance. They can also pair with DJI RC Plus 2 Enterprise for standalone use. With DJI FlightHub 2's intelligent features, pilots can significantly cut down on operational time and labor costs, maximizing efficiency and savings.

Master All Environments

Flexible Deployment, Ultra-Long Transmission

High-Performance Drones

Efficient Operation with Intelligent

Enhanced Experience With Advanced Software

Secure and Compliant, Open Ecosystem

Master

All Environments

Heat Resistant

50°C

Highest Operating Temperature

Cold Resistant

-30°C

Lowest Operating Temperature

Wind Resistance

12m/s

Max Wind Speed Resistance

Rugged and Dependable

IP56 DJI Dock 3

IP66 DJI Matrice 4D/4TD

Fixed-Mounted

Deployment

The new D-RTK 3 Relay Fixed Deployment Version 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

nstalling 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

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

Mobile Vehicle-Mounted Deployment

DJI Dock 3 is DJI's first Dock to support mobile vehicle-mounted deployment. [6] Optimized for this purpose, the Dock's overall structure, components, and air conditioning have undergone vehicle vibration testing, with new features such as horizontal calibration and cloud-based dock location calibration.

Cloud-Based Dock Location Calibration

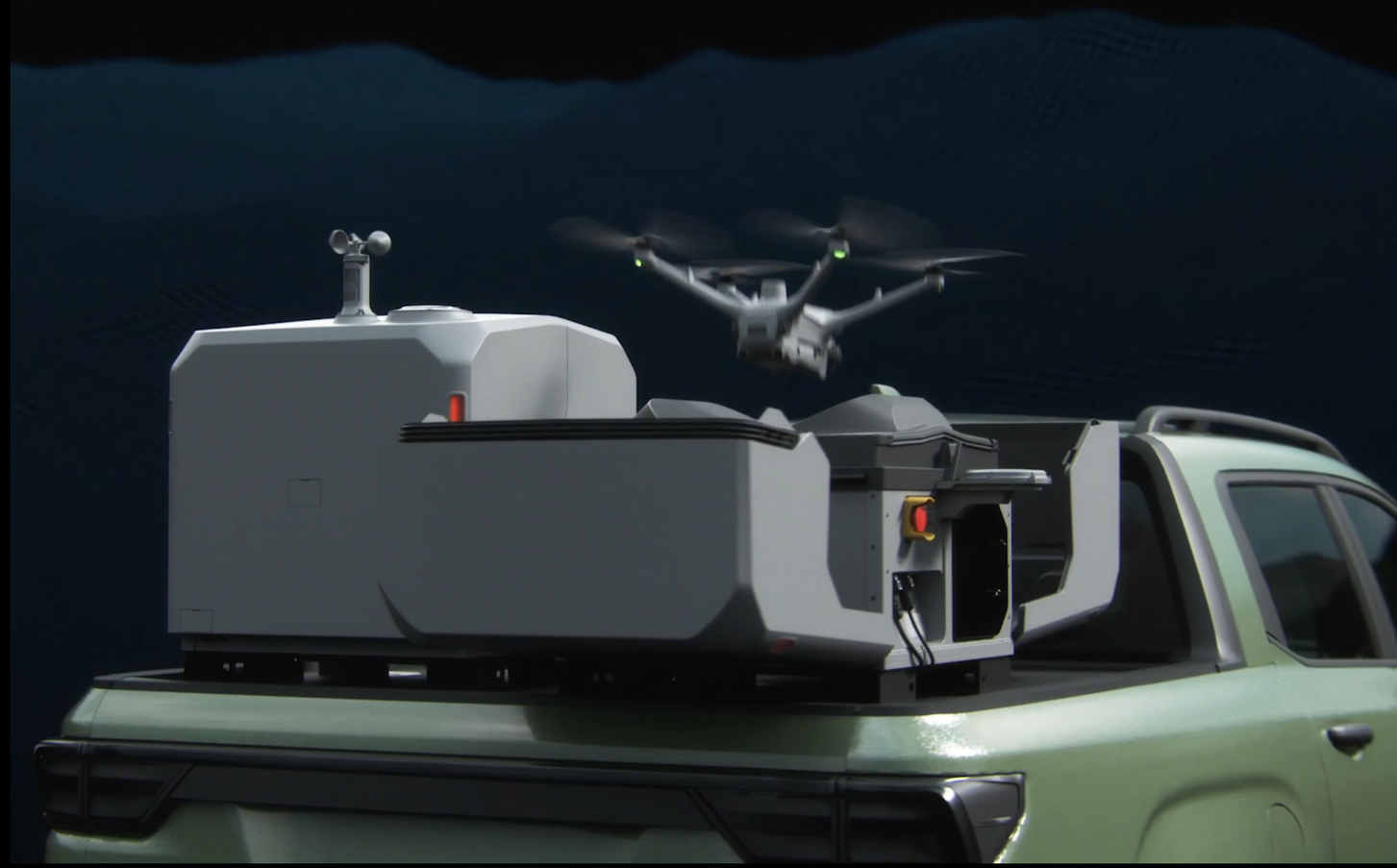
During mobile operations, indoor personnel can use DJI FlightHub 2 to remotely set the dock's location and assign tasks on the cloud, thereby enhancing personnel and scheduling efficiency.

Safe Dual-Dock Deployment

Two docks can be deployed on a single vehicle simultaneously, achieving a significant efficiency boost. DJI Dock 3 employs a special take-over pattern to avoid drone-to-drone collisions and ensure operational safety, allowing the two docks to alternate tasks in an orderly manner.

Dual-Drone Rotation

Automated hovering rotation of two drones enables continuous real-time aerial footage transmission. In emergency scenarios, a spotlight can be equipped to provide full-time illumination.



High-Performance

Drones

DJI Matrice 4D

Wide-Angle Camera

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

Tele Camera

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

Medium Tele Camera

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

Laser Range Finder

Measurement Range: 1800 m (1 Hz);
Oblique Incidence Range (1: 5 Oblique Distance): 600 m (1 Hz)

DJI Matrice 4TD

Wide-Angle Camera

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

Tele Camera

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

NIR Auxiliary Light

6° FOV, 100m Illumination Distance

Medium Tele Camera

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

Laser Range Finder

Measurement Range: 1800 m (1 Hz);
Oblique Incidence Range (1: 5 Oblique Distance): 600 m (1 Hz)

Infrared Thermal Camera

640×512 Resolution, f/1.0, 53mm Format Equivalent
Uncooled VOx Microbolometer

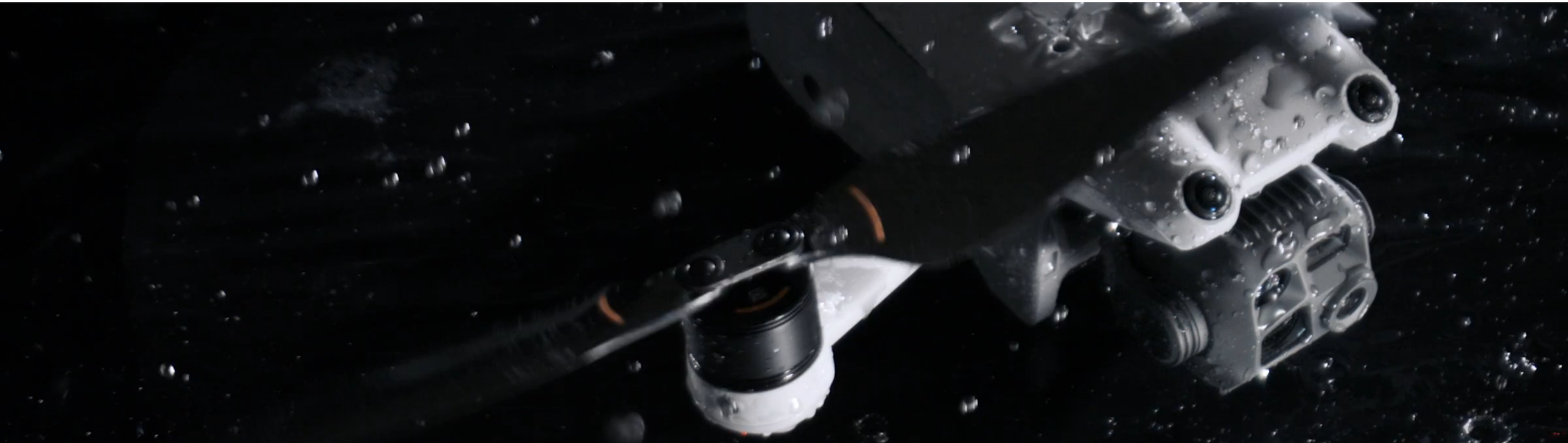
Longer Flight Time,
Robust Protection

When fully charged, Matrice 4D/4TD delivers an impressive flight time of 47 minutes at a speed of 15 m/s, achieving a remarkable 37% increase in operation time. At a radius of 10 km, these drones provide 18 minutes of operation. Both models are designed to endure harsh conditions with an impressive IP55 dust and water resistance rating.

54 Minutes
Forward Flying

47 Minutes
Hovering

IP56
Protection



Obstacle Sensing

for Safe Operation

The Obstacle Sensing Module 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. Operational safety are ensured for varying environments of power distribution network and the intricate layouts of substations.

Specifications

Total Weight	55 kg (without aircraft)
Dimension	Dock Cover Opened: 1760x745x485 mm (LWH)
Input Voltage	100–240 V (AC), 50/60 Hz
Input Power	Max 800 W
Operating Temperature	-30° to 50° C (-22° to 122° F)
Ingress Protection Rating	IP56
Max Allowable Landing Wind Speed	12 m/s
Max Operating Altitude	4500 m

Output Voltage	35 V DC
Charging Time	27 minutes
Video Transmission System	DJI O4+ Enterprise
Operating Frequency	2.400–2.4835 GHz 5.150–5.250 GHz (CE: 5.170–5.250 GHz) 5.725–5.850 GHz
Ethernet Access	10/100/1000Mbps adaptive Ethernet port

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