



DJI Matrice 4E

- brings unmatched versatility for every mission.

Prepared by

FLY WORLD GADGET

Introduction

Introducing the DJI Matrice 4 Series, a new compact and intelligent multi-sensor flagship drone series for enterprise industries. The series includes Matrice 4T and Matrice 4E, each equipped with advanced features such as smart detection and measurement with laser range finder. Flight operations are now safer and more reliable with significantly enhanced sensing capabilities. The accessories for the Matrice 4 series have also been significantly upgraded. The Matrice 4T is suitable for a wide range of industries, including electricity, emergency response, public safety, and forestry conservation. The Matrice 4E is designed for geospatial applications such as surveying and mapping, construction, and mining. A new era in intelligent aerial operations begins now.

In the box :-



DJI Matrice 4E
× 1



DJI Matrice 4 Series
Battery
× 1



DJI RC Plus 2
Enterprise
× 1



DJI 100W USB-C Power
Adapter
× 1



DJI Matrice 4E Gimbal
Protector
× 1



DJI Cellular Dongle 2
Pry Bar
× 1



DJI Matrice 4 Series
Propellers
× 3



100W Power Adaptor
AC Cable
× 1



DJI Matrice 4 Series
Storage Case
× 1



DJI Matrice 4 Series
Storage Case Shoulder
Strap
× 1



DJI Matrice 4 Series
Charging Hub
× 1



microSD Card
× 1



USB-C to USB-C Data
Cable
× 1



USB-A to USB-C Data
Cable
× 1



Two Models, Countless Applications :-

DJI MATRICE 4T

Wide-Angle Camera

1/1.3" CMOS, 48MP Effective Pixels, f/1.7, Format Equivalent: 24 mm

Medium Tele Camera

1/1.3" CMOS, 48MP Effective Pixels, f/2.8, Format Equivalent: 70 mm

Tele Camera

1/1.5" CMOS, 48MP Effective Pixels, f/2.8, Format Equivalent: 168 mm

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): $\pm (0.2 + 0.0015 \times D)$ ^[1]

Infrared Thermal Camera ^[2]

Resolution 640 × 512, f/1.0, Equivalent Focal Length: 53 mm, Uncooled VOx Microbolometer, Supports High-Res Mode

NIR Auxiliary Light ^[3]

FOV: 6°, Illumination Distance: 100 m

DJI MATRICE 4E

Wide-Angle Camera

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

Medium Tele Camera

1/1.3" CMOS, 48MP Effective Pixels, f/2.8, Format Equivalent: 70 mm

Tele Camera

1/1.5" CMOS, 48MP Effective Pixels, f/2.8, Format Equivalent: 168 mm

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): $\pm (0.2 + 0.0015 \times D)$ ^[1]

Intelligent Operations :-

Smarter Operations

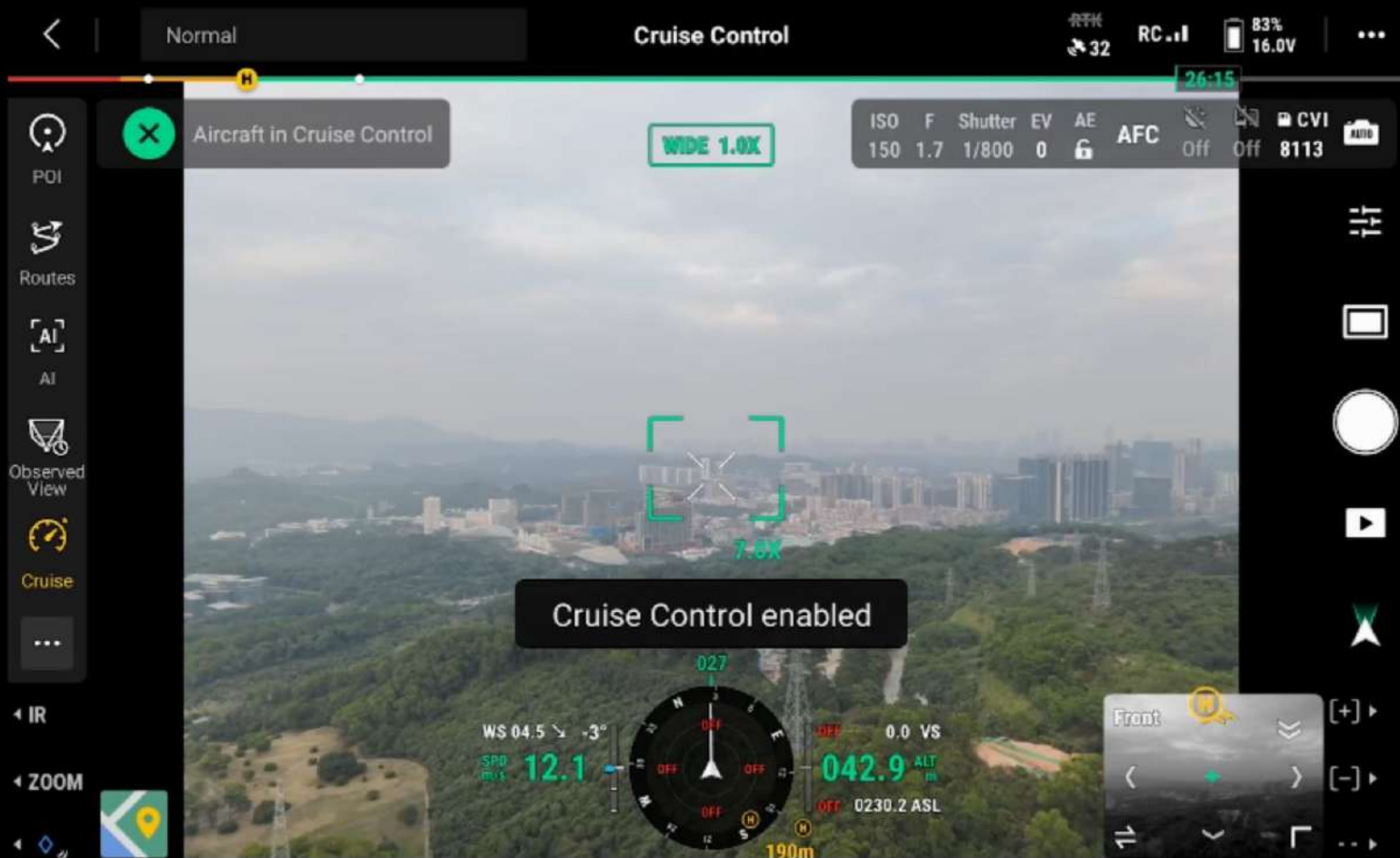
- The built-in model can detect vehicles, vessels, and subjects during search and rescue operations or routine flights. It also supports switching to other models, enabling the expansion of application scenarios. Additionally, it supports high-res grid photos and features powerful tracking capabilities.

Laser Range Finder, Precise Measurement

- The laser range finder enables real-time precise measurement. Through simple operations such as pin point, line drawing, and area calculation, it can complete tasks like marking target locations for inspection purposes or calculating the area of a wildfire. Additionally, users can share info via the DJI Pilot QR code or FlightHub 2 with relevant personnel to enhance collaboration and workflow efficiency.

Observation Range Recording

- DJI Pilot 2 can highlight the center position of the camera frame and ground area observed. It can display the surveyed area on the map, making it especially useful for patrols, and rescue operations in mountainous terrain without clear landmarks.



Efficient Flight, Intelligent Operations :-

- **Cruise**

Activate cruise control mode to pilot the drone in a specific direction without constantly pressing the control sticks, making long-distance flights easier.

- **Fly to**

In emergencies or disasters, the drone can automatically adjust its flight path and speed based on the surrounding environment, allowing it to reach a designated location without manual adjustments.

- **Smart Track**

Smart Track allows for precise subject positioning and automatic zoom adjustments, allowing you to switch between subjects easily. It can automatically reacquire a subject even if obscured briefly.

- **POI**

POI enables continuous observation and 3D modeling of buildings while flying around a designated area, greatly enhancing the efficiency of fixed-point observation and modeling tasks.

Low-Light Environments :-

- **Night Screen Mode**

The Matrice 4 series has received a significant night mode upgrade. Its Full-Color night vision now supports three modes and includes two levels of enhanced noise reduction. Equipped with an IR Cut Filter and NIR auxiliary light, it effortlessly overcomes the challenges of darkness, ensuring search and rescue subjects clearly visible

- **Smart Low Light Photo**

The Matrice 4 series cameras feature larger apertures and intelligent low-light capabilities, significantly enhancing performance and improving operations during dusk and nighttime.

- **NIR Auxiliary Light**

The Matrice 4T features new NIR illumination hardware, enabling lighting distances of up to 100 meters. This ensures clear visibility of objects in dark environments, making it ideal for applications like wildlife protection.

- **Thermal Imaging**

The Matrice 4T supports infrared High-Res Mode, with image resolutions up to 1280 × 1024. It also offers Ultra-High Resolution, revealing small temperature details for various operations. Each device undergoes temperature accuracy calibration and utilizes an onboard temperature sensor to provide real-time temperature measurements.

- **Low-Light Fisheye Omnidirectional Sensing**

The Matrice 4 series has six high-definition low-light fisheye vision sensors, significantly enhancing visual low-light positioning and obstacle avoidance capabilities. This allows for automatic obstacle avoidance, intelligent rerouting, and safe return in urban low-light environments.

Tele Cameras :-

- **Enhanced Medium Telephoto**

The Matrice 4 series is equipped with a medium tele camera, expanding its capabilities for medium-range inspection tasks. During power line or bridge inspections, it can detect screws and cracks from a distance of 10 meters and clearly read instrument data at substations.

- **Super Resolution telephoto**

The tele camera of the Matrice 4 series has significantly improved clarity, featuring 48 MP resolution, capable of capturing incredibly details from signs up to 250 meters away. Additionally, the Matrice 4T is equipped with an IR-Cut Filter, ensuring 24/7 operations.

- **Foreground Stabilization for Telephoto Imagery**

The upgraded telephoto stabilization makes foreground subjects stable and clear during telephoto shooting at 10x zoom or higher. In scenarios such as public safety and inspections, subject details are clearly visible.

- **Electronic Dehazing, Clear as Ever**

In conditions such as smog or atmospheric humidity, Electronic Dehazing supports three modes (Low, Medium, High) to improve the imaging clarity of the Matrice 4 series to match different operational environments and requirements.

Surveying :-

Precision Mapping, Time-Saving and Effortless

- Rapid 0.5-Second Interval Shooting

The Matrice 4E wide-angle camera supports rapid 0.5-second interval shooting in both orthophoto and oblique photography modes, enabling high-speed aerial surveying from multiple angles. Additionally, the mapping flight speed can reach up to 21 meters per second, significantly enhancing work efficiency.

Multi-Directional Capture, Efficiency Multiplied

- 5-Directional Oblique Capture

The Matrice 4 series supports a new 5-directional oblique capture. The gimbal can intelligently rotate and shoot at multiple angles based on the survey area, achieving the effect of multiple shots in a single flight compared to previous models, significantly enhancing the efficiency of small drone oblique photography.

- 3-Directional Ortho Capture

Matrice 4E supports 3-directional ortho capture, enabling lateral capturing while performing ortho collection tasks, which reduces lateral overlap. A single flight can complete mapping operations for an area of 2.8 square kilometers. No additional elevation optimization flight route is required to achieve better elevation accuracy. Combined with new DJI Terra capabilities, it further enhances reconstruction efficiency while ensuring quality.

Surveying :-

- **Smart 3D Capture, Precision Modeling**

DJI Matrice 4E supports Smart 3D Capture, which allows you to capture and create a rough model on the remote controller. Based on the rough model, it can quickly generate precise mapping routes close to a structure's surface, completing detailed measurements and modeling of irregular buildings. It also supports displaying virtual space routes and waypoint photos for smart 3D capture, making it convenient to assess specific routes' flight safety and coverage area.

- **Auto-Generated Surveying Operation Report**

Upon completion of an operation, DJI Pilot 2 can automatically generate a survey quality report. This report provides comprehensive access to key information such as photo points, RTK status, and photo parameters. If there are any anomalies, additional photos can be taken on-site to avoid repeated trips.

- **Distortion Correction, Precision Enhancement**

Distortion Correction 2.0 provides high-precision in-camera distortion correction with residual distortion less than 2 pixels. Each Matrice 4E's wide-angle camera is calibrated before leaving the factory, when used with DJI Terra, it significantly improves reconstruction accuracy.

SAFETY :-

Safe Flight, Worry-Free Operation

- **Fusion Positioning, Safe Return-to-Home**

The Matrice 4 series comes with an integrated DJI RTK module which supports the extended L5 frequency band and features GNSS+Vision Fusion Positioning and Navigation System. It allows for the return-to-home point to be updated through visual positioning, allowing for rapid takeoff within 15 seconds. Even without GNSS signals, it can complete the return-to-home process, effectively overcoming signal obstructions and interference commonly found in urban environments.

- **Intelligent Guidance, Unobstructed Flight**

When the DJI RC Plus 2 Enterprise remote controller is connected to the internet, it can load terrain elevation maps and preload detailed maps. This enables automatic path planning for obstacle avoidance, effectively managing scenarios such as flying at night or through mountainous areas, ensuring the safety of flight operations. The drone has a 5-directional vision assist view system along with downward vision, which aids in providing comprehensive visibility for enhanced protection.

- **Achieve New Heights in Video Transmission**

The O4 Enterprise video transmission system sets a new industry standard for challenging environments. Thanks to the 8-antenna system in the Matrice 4 Series and the high-gain antenna in the remote controller, you can achieve up to 25 kilometers in transmission range. Furthermore, the system improves image transmission with a download bandwidth of 20MB/s, more than double the bitrate of the Mavic 3 Enterprise Series, ensuring more precise and stable images of route uploads and material downloads.

The Matrice 4 series supports an optional DJI Cellular Dongle 2. By utilizing 4G image transmission in conjunction with the aircraft's antennas, signal stability is further enhanced.

ACCESSORIES:-

Accessory Upgrades, Performance Leap

- **Gimbal-Following Spotlight**

The DJI AL1 SpotLight can illuminate subjects up to 100 meters away, and features two modes, Always-On and Strobe. It can connect with the gimbal, enabling it to follow the camera's movements to ensure the illuminated area aligns with the camera's view. Additionally, the spotlights can focus on a single object or offer a wide field of view (FOV) which illuminates up larger areas.

- **Real-Time Voice Speaker**

The DJI AS1 Speaker offers impressive sound power and extensive range. It has a broadcast range of up to 300 meters and can produce a volume of up to 114 decibels at a distance of 1 meter. It supports recorded messages, media imports, and text-to-speech conversion. ^[18]

Additionally, it features real-time broadcasting and echo suppression, enhancing the efficiency and flexibility of emergency search-and-rescue operations.

- **Integrated Broadcasting and Lighting**

The spotlight and speaker can function independently or together, addressing various operational scenarios.

ACCESSORIES

DJI D-RTK 3

MULTIFUNCTIONAL STATION



The D-RTK 3 Multifunctional Station can serve as a base station to provide centimeter-level positioning for multiple drones simultaneously or extend the operational range of drones in relay station mode*. Additionally, the new Rover Station Mode, combined with the DJI Enterprise app and DJI Terra, provides a comprehensive solution for high-precision aerial surveying applications, ensuring a secure and accurate operation.

ACCESSORIES:-



DJI RC Plus 2 Enterprise

DJI RC Plus 2 Enterprise remote controller features a new high-brightness screen² that remains clearly visible even in direct sunlight. It has an IP54 protection rating and can operate in temperatures ranging from -4°F to 122°F (-20°C to 50°C). Using the O4 Enterprise video transmission system, it features a built-in high-gain antenna array, providing strong performance. It also supports O4 Enterprise and 4G hybrid transmission solutions, ensuring stable and smooth video transmission in urban high-rise areas and mountainous environments.

ACCESSORIES:-

DJI Cellular Dongle 2

The DJI Cellular Dongle 2 offers 4G network video transmission and can work together with the O4 Enterprise video transmission system, ensuring safe flights in complex environments. Additionally, it provides mobile network connectivity for the remote controller.



ACCESSORIES:-



DJI Power 1000

DJI Power 1000 can provide up to 200W fast charging for Matrice 4 Series intelligent batteries, fully charging one battery in 48 minutes. It also offers 2200W AC output, ensuring a reliable and stable power supply for outdoor operations. Additionally, it can be paired with the DJI Power 1kW car charger, allowing for 1kW fast charging, supporting outdoor operations with continuous power and uninterrupted journeys.

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