DJI MATRICE 4 SERIES

The Age of Intelligent Flight

Product
Highlights

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.

Two Models,
Countless Applications

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): ± (0.2 + 0.0015 × D)

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

NIR Auxiliary Light
FOV: 6°, Illumination Distance: 100 m

Matrice 4E

Wide-Angle Camera
4/3 CMOS, 20MP Effective Pixels , f/2.8-f/11, Format Equivalent: 24

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): ± (0.2 + 0.0015 × D)

Intelligent
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.

Excel In Low-Light
Environments

Night Scene

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. [4] This ensures clear visibility of objects in dark environments, making it ideal for applications like wildlife protection.

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.

Crystal Clear Vision

Unveil the Details

Enhanced Medium Telephoto

Equipped with wide-angle lenses on all sides for omnidirectional obstacle avoidance with zero blind spots. Adjust proximity alarms and braking distance depending on mission requirements.

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.

Precision Mapping,
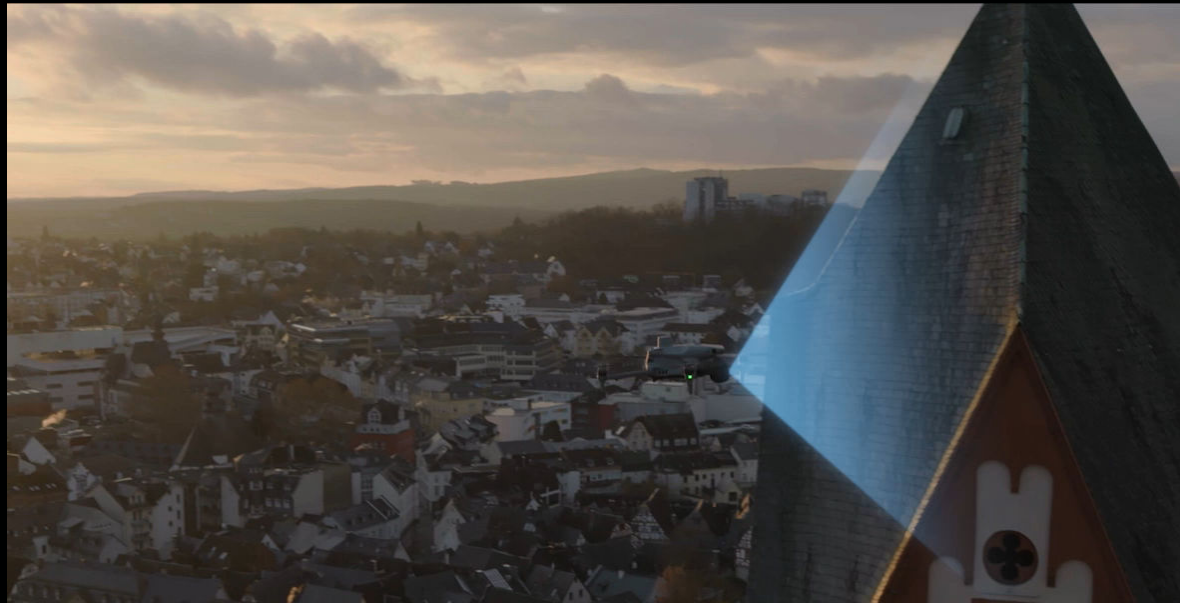## Time-Saving and Effortless

XBOOM
Gadgets Reloaded !

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, [8] significantly enhancing work efficiency.

Multi-Directional Capture,
Efficiency Multiplied

5-Directional Oblique Capture

The upgraded telephoto stabilization makes foreground subjects stable and clear during telephoto 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 as public safety and inspections, subject details are clearly visible.

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.

Specifications

Takeoff Weight	1219 g	**Max Hovering Time**	42 minutes
Dimension	307.0x387.5x149.5 mm	**Max Flight Distance**	35 km
Diagonal Wheelbase	438.8 mm	**Max Wind Speed Resistance**	12 m/s
Max Ascent Speed	10 m/s	**ISO Range**	ISO 100 to ISO 204800
Max Descent Speed	8 m/s	**Max Image Size**	8192x6144
Max Speed	21 m/s	**Video Resolution**	4K: 3840x2160@30fps
Max Takeoff Altitude	6000 m	**Sensor**	DJI Matrice 4E: 4/3-inch CMOS DJI Matrice 4T: 1/1.3-inch CMOS
Max Flight Time	45 minutes		

In the Box

DJI Matrice 4E   x 1

DJI Matrice 4 Series Battery   x 3

DJI RC Plus 2 Enterprise   x 1

DJI 100W USB-C Power Adapter   x 1

DJI Matrice 4 Series Charging Hub   x 1

MicroSD Card   x 1

DJI Matrice 4E Gimbal Protector   x 1

DJI Cellular Dongle 2 Pry Bar   x 1

DJI Matrice 4 Series Propellers   x 3

100W Power Adaptor AC Cable   x 1

USB-C to USB-C Data Cable   x 1

USB-A to USB-C Data Cable   x 1

DJI Matrice 4 Series Storage Case   x 1

DJI Matrice 4 Series Storage Case Shoulder Strap   x 1

In the Box

DJI Matrice 4T	x 1
DJI Matrice 4 Series Battery	x 3
DJI RC Plus 2 Enterprise	x 1
DJI 100W USB-C Power Adapter	x 1
DJI Matrice 4 Series Charging Hub	x 1
MicroSD Card	x 1
DJI Matrice 4E Gimbal Protector	x 1
DJI Cellular Dongle 2 Pry Bar	x 1
DJI Matrice 4 Series Propellers	x 3
100W Power Adaptor AC Cable	x 1
USB-C to USB-C Data Cable	x 1
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