Specs

Aircraft

Takeoff Weight (with propellers)	1219 g* * The standard weight of the aircraft (including the battery, propellers, and a microSD card). The actual product weight may vary due to d materials and external factors.
Takeoff Weight (with Low-Noise propellers)	1229 g* * The standard weight of the aircraft (including the battery, propellers, and a microSD card). The actual product weight may vary due to d materials and external factors.
Max Takeoff Weight	Standard Propellers: 1420 g Low-Noise Propellers: 1430 g
Dimensions	Folded: 260.6×113.7×138.4 mm (L×W×H) Unfolded: 307.0×387.5×149.5 mm (L×W×H) Maximum dimensions excluding propellers.
Max Payload	200 g
Propeller Size	10.8 in
Diagonal Wheelbase	438.8 mm
Max Ascent Speed	10 m/s
Maximum Ascent Speed With Accessories	6 m/s
Max Descent Speed	8 m/s
Max Descent Speed With Accessories	6 m/s
Max Horizontal Speed (at sea level, no wind)	21 m/s 21 m/s flying forward, 18 m/s flying backward, 19 m/s flying sideways* * No faster than 19 m/s with Sport mode in EU regions.
Max Altitude	6000 m
Max Operating Altitude with Payload	4000 m
Max Flight Time (without wind)	49 min (standard propellers) 46 min (low-noise propellers) Measured with the aircraft flying at approximately 9 m/s without payloads in a windless environment until the battery level reached 0%. D reference only. Actual usage time may vary depending on the flight mode, accessories, and environment. Please pay attention to reminde

Max Hover Time (without wind)	42 min (standard propellers) 39 min (low-noise propellers) Measured by the aircraft hovering in a windless environment at sea level, from 100% battery level until 0%.
Max Flight Distance (no wind)	35 km (standard propellers) 32 km (low-noise propellers) Measured with the aircraft flying at approximately 14 m/s without payloads in a windless environment until the battery level reached 0%. reference only. Actual usage time may vary depending on the flight mode, accessories, and environment. Please pay attention to reminde
Max Wind Speed Resistance	12 m/s* * Max wind speed resistance during takeoff and landing.
Max Pitch Angle	35°
Operating Temperature	-10℃ to 40℃ (14°F to 104°F)
GNSS	GPS + Galileo + BeiDou + GLONASS* * GLONASS is supported only when the RTK module is enabled.
Hovering Accuracy Range (windless or breezy)	±0.1 m (with Vision System); ±0.5 m (with GNSS); ±0.1 m (with RTK)
RTK GNSS Accuracy	RTK Fix: 1 cm + 1 ppm (horizontal), 1.5 cm + 1 ppm (vertical)
Internal Storage	N/A
Ports	E-Port interface × 1: Supports official accessories and third-party PSDK devices (hot-swapping is not sup E-Port Lite interface × 1: supports USB connection to DJI tuning software and some third-party PSDK de Accessories or expansion modules must be installed before powering on.
Propeller Model	1157F (standard propellers) 1154F (low noise propeller)
Beacon	Built into the aircraft

Camera

Image Sensor	DJI Matrice 4T Wide: 1/1.3-inch CMOS, Effective Pixels: 48 MP Medium Tele Camera: 1/1.3-inch CMOS, Effective Pixels: 48 MP Telephoto: 1/1.5-inch CMOS, Effective Pixels: 48 MP DJI Matrice 4E Wide: 4/3-inch CMOS Effective Pixels: 20 MP Medium Tele Camera: 1/1.3-inch CMOS, Effective Pixels: 48 MP Telephoto: 1/1.5-inch CMOS, Effective Pixels: 48 MP
Lens	DJI Matrice 4T FOV: 82° Equivalent Focal Length: 24 mm Aperture: f/1.7

Focus: 1 m to ∞

DJI Matrice 4E
FOV: 84°
Equivalent Focal Length: 24 mm
Aperture: f/2.8-f/11
Focus: 1 m to ∞

Medium Tele Camera
FOV: 35°
Equivalent Focal Length: 70 mm
Aperture: f/2.8
Focus: 3 m to ∞

Tele camera
FOV: 15°
Equivalent Focal Length: 168 mm
Aperture: f/2.8
Focus: 3 m to ∞

ISO Range

Normal Mode: ISO 100 to ISO 25600

Night Scene Mode:
Matrice 4T:
Wide Camera: ISO 100 to ISO 409600
Midum Tele Camera: ISO 100 to ISO 409600
Tele Camera: ISO 100 to ISO 819200

Matrice 4E:
Wide Camera: ISO 100 to ISO 204800
Midum Tele Camera: ISO 100 to ISO 409600
Tele Camera: ISO 100 to ISO 409600

Shutter Speed

DJI Matrice 4T
2-1/8000 s

DJI Matrice 4E
Wide:
Electronic Shutter: 2-1/8000 s
Mechanical Shutter: 2-1/2000 s
Medium Telephoto: 2-1/8000 s
Telephoto: 2-1/8000 s

Max Photo Size

DJI Matrice 4T
Wide: 8064 × 6048
Medium Telephoto: 8064 × 6048
Telephoto: 8192 × 6144

DJI Matrice 4E
Wide: 5280 × 3956
Medium Telephoto: 8064 × 6048
Telephoto: 8192 × 6144

Minimum Photo Interval

DJI Matrice 4T: 0.7 s
DJI Matrice 4E: 0.5 s

Still Photography Modes

DJI Matrice 4T:
Wide:
Single: 12 MP/48 MP
Interval: 12 MP/48 MP
JPEG：0.7/1/2/3/5/7/10/15/20/30/60 s
Smart Shooting:12MP
Panorama: 12 MP (raw image);100 MP (stitched image)

Medium Tele Camera:

	Single: 12 MP and 48 MP Interval: 12 MP/48 MP JPEG：0.7/1/2/3/5/7/10/15/20/30/60 s Smart Shooting: 12MP Telephoto: Single: 12 MP and 48 MP Interval: 12 MP/48 MP JPEG：0.7/1/2/3/5/7/10/15/20/30/60 s Smart Shooting：12MP DJI Matrice 4E: Single: 20 MP Interval: 20 MP JPEG：0.5/0.7/1/2/3/5/7/10/15/20/30/60 s JPEG + RAW：2/3/5/7/10/15/20/30/60 s Smart Shooting: 20 MP Panorama: 20 MP (raw image);100 MP (stitched image) Medium Tele Camera: Single: 12 MP and 48 MP Interval: 12 MP/48 MP JPEG: 0.5/0.7/1/2/3/5/7/10/15/20/30/60 s Smart Shooting：12 MP Telephoto: Single: 12 MP and 48 MP Interval: 12 MP/48 MP JPEG: 0.5/0.7/1/2/3/5/7/10/15/20/30/60 s Smart Shooting: 12 MP
Video Codec and Resolution	Video Coding Format: H.264/H.265 Coding Strategy: CBR, VBR Resolution: 4K: 3840 × 2160@30fps FHD: 1920 × 1080@30fps
Max Video Bitrate	H.264: 60Mbps H.265: 40Mbps
Supported File System	exFAT
Photo Format	DJI Matrice 4T: JPEG DJI Matrice 4E: Wide: JPEG/DNG (RAW) Medium Tele Camera: JPEG Telephoto: JPEG
Video Format	MP4 (MPEG-4 AVC/H.264)
Digital Zoom	Telephoto: 16x (112x hybrid zoom)

NIR Auxiliary Light

Infrared Illumination	DJI Matrice 4T: FOV: 5.7°±0.3°

Laser Module

Laser Rangefinding	Measurement Range: 1800 m (1 Hz) @20% reflectivity target* Oblique Incidence Range (1:5 Oblique Distance): 600 m (1 Hz) Blind Zone: 1 m Distance Measurement Accuracy: 1-3 m: System Error <0.3 m, Random Error <0.1 meters @1σ Other Distances: ±(0.2+0.0015D) (D represents the measurement distance in meters) * Performance degradation may occur in rainy or foggy conditions

Infrared Thermal Camera

Thermal Imager	DJI Matrice 4T: uncooled vanadium oxide (VOx) DO NOT expose the infrared camera lenses to strong sources of energy such as the sun, lava, or a laser beam. Otherwise, the camera sen burned leading to permanent damage.
Resolution	DJI Matrice 4T: 640 × 512
Pixel Pitch	DJI Matrice 4T: 12 μm
Frame Rate	DJI Matrice 4T: 30 Hz
Lens	DJI Matrice 4T DFOV: 45°±0.3° DJI Matrice 4T equivalent focal length: 53 mm DJI Matrice 4T Aperture: f/1.0 DJI Matrice 4T Focus: 5 m to ∞
Sensitivity	DJI Matrice 4T: ≤50mk@F1.0
Temperature Measurement Method	DJI Matrice 4T: Spot Meter, Area Measurement
Temperature Measurement Range	DJI Matrice 4T: High Gain Mode: -20℃ to 150℃ (-4°F to 302°F) () Low Gain Mode: 0℃ to 550℃ (32°F to 1022°F)
Palette	DJI Matrice 4T: White Hot/Black Hot/Tint/Iron Red/Hot Iron/Arctic/Medical/Fulgurite/Rainbow 1/Rainbow 2
Photo Format	DJI Matrice 4T：JPEG (8bit)、 R-JPEG (16bit)
Video Resolution	DJI Matrice 4T: 1280 × 1024@30fps (Super Resolution enabled, Night Mode not activated) Other conditions: 640 × 512@30fps
Video Bitrate	DJI Matrice 4T: 6.5Mbps (H.264 640 × 512@30fps) 5Mbps (H.265 640 × 512@30fps) 12Mbps (H.264 1280 × 1024@30fps) 8Mbps (H.265 1280 × 1024@30fps)
Video Format	DJI Matrice 4T：MP4
Still Photography Modes	DJI Matrice 4T: Single: 1280 × 1024/640 × 512 Interval: 1280 × 1024/640 × 512 JPEG: 0.7/1/2/3/5/7/10/15/20/30/60 s
Photo Resolution	DJI Matrice 4T: Infrared: 1280 × 1024 (Super Resolution on) 640 × 512 (Super Resolution off)

Digital Zoom	DJI Matrice 4T: 28x
Infrared Wavelength	DJI Matrice 4T: 8um to 14um
Infrared Temperature Measurement Accuracy	DJI Matrice 4T: High Gain: ±2℃ or ±2%, whichever is greater DJI Matrice 4T: Low Gain: ±5℃ or ±3%, whichever is greater

Gimbal

Stabilization System	DJI Matrice 4T：3-axis (tilt, roll, pan) DJI Matrice 4E：3-axis (tilt, roll, pan)
Mechanical Range	DJI Matrice 4T Gimbal Mechanical Limits: Tilt: -140° to 113° Roll: -52° to 52° Pan: -65° to 65° Soft Limits: Tilt: -90° to 35° Roll: -47° to 47° Pan: -60° to 60° DJI Matrice 4E Gimbal Mechanical Limits: Tilt: -140° to 50° Roll: -52° to 52° Pan: -65° to 65° Soft Limits: Tilt: -90° to 35° Roll: -47° to 47° Pan: -60° to 60°
Controllable Rotation Range	DJI Matrice 4T DJI Matrice 4T Pan: ±-90° to 35° Pan: Not controllable DJI Matrice 4E Tilt: -90° to 35° Pan: Not controllable
Max Control Speed (tilt)	100°/s
Angular Vibration Range	±0.007°
Yaw Axis	Manual operation is uncontrollable The MSDK interface program is controllable.
Ingress Protection Rating	No Standard Protection Level
Operating Temperature	Standard: -10°C to 40°C (14°F to 104°F)

Sensing

Sensing Type	Omnidirectional binocular vision system, supplemented with a 3D infrared sensor at the bottom of the
Forward	Binocular Measurement Range: 0.4-22.5 m Measurement Range: 0.4-200 m Obstacle Avoidance Speed: Flight Speed ≤21 m/s FOV: 90° (horizontal), 135° (vertical)

Backward	Measurement Range: 0.4-22.5 m Measurement Range: 0.4-200 m Obstacle Avoidance Speed: Flight Speed ≤21 m/sField of View (FOV)-90° (horizontal), 135° (vertical)
Lateral	Measurement Range: 0.5-32 m Measurement Range: 0.5-200 m Obstacle Avoidance Speed: Flight Speed ≤21 m/s FOV: 90° (horizontal), 90° (vertical)
Downward	Measurement Range: 0.3-18.8 m Obstacle Avoidance Speed: Flight Speed ≤10 m/s The FOV to the front and rear is 160° and 160° to the right and left.
Operating Environment	Forward, Backward, Left, Right, and Upward: Delicate texture on the surface, adequate light. Downward: The ground has rich textures and sufficient lighting conditions*, with a diffuse reflection surface and a greater than 20% (such as walls, trees, people, etc.). * Sufficient lighting conditions refer to an illuminance not lower than that of a nighttime city light scene.

Video Transmission

Video Transmission System	O4 Enterprise
Live View Quality	Remote Controller: 1080p/30fps
Operating Frequency	2.400-2.4835 GHz 2.400-2.4835 GHz 5.725-5.850 GHz 5.150-5.250 GHz (CE) Operating frequency allowed varies among countries and regions. Refer to local laws and regulations for more information.
Transmitter Power (EIRP)	2.4 GHz: ≤33 dBm (FCC), ≤20 dBm (CE/SRRC/MIC) 5.8 GHz: <33 dBm (FCC), <30 dB (SRRC) , <14 dBm (CE) 5.15-5.25: < 23 dBm (FCC/CE)
Max Transmission Distance (unobstructed, free of interference)	25 km (FCC) 12 km (CE) 12 km (SRRC) 12 km (MIC) Measured in an unobstructed environment free of interference. The above data shows the farthest communication range for one-way, nc under each standard. During your flight, please pay attention to RTH reminder on the DJI Pilot 2 app.
Max Transmission Distance (with interference)	Strong Interference - City Centers (approx. 1.5-5 km) Medium Interference - Suburban Areas (approx. 5-15 km) Micro interference：Suburbs/Seasides (approx. 15-25 km) * Data is tested under FCC standards in unobstructed environments of typical interference. Only to serve as a reference and provides no the actual flight distance.
Max Download Speed	20 MB/s The above data was measured under conditions where the aircraft and remote controller were in close proximity without interference.
Latency (depending on environmental conditions and mobile device)	130 ms Under near-field interference-free conditions, the Latency performance when shooting with a 1x lens.

Antenna	8 antennas, 2T4R
Others	Cellular Dongle Compartment

Memory Card

Supported SD Cards	U3/Class10/V30 or above is required, or use a memory card from the recommended list.
Recommended microSD Cards	Lexar 1066x 64GB U3 A2 V30 microSDXC Lexar 1066x 128GB U3 A2 V30 microSDXC Lexar 1066x 256GB U3 A2 V30 microSDXC Lexar 1066x 512GB U3 A2 V30 microSDXC Kingston Canvas GO! Plus 64GB U3 A2 V30 microSDXC Kingston Canvas GO! Plus 128GB U3 A2 V30 microSDXC Kingston Canvas GO! Plus 256GB U3 A2 V30 microSDXC Kingston Canvas GO! Plus 512GB U3 A2 V30 microSDXC

Intelligent Flight Battery

Capacity	6741 mAh
Standard Voltage	14.76 V
Max Charging Voltage	17.0 V
Cell Type	Li-ion 4S
Energy	99.5 Wh
Weight	401 g
Recharging Temperature	5°C to 40°C (41°F to 104°F)
Discharge Rate	4C
Max Charging Power	1.8C
Supports low-temperature charging	Not supported
Cycle Count	200

Power Adapter (100W)

Input	100-240 V (AC), 50-60 Hz, 2.5 A
Output	Max. 100 W (total) When both ports are used, the max output power of one port is 82 W, and the charger will dynamically allocate the output power of the t to the power load.
Rated Power	100 W

Charging Hub

Input	USB-C：5-20 V, max 5 A

Output	Battery Interface: 11.2 V to 17 V
Rated Power	100 W
Recharging Type	4 batteries charging in sequence Support Standard Mode (100% SOC) and Standby Mode (90% SOC)
Compatible Battery	DJI Matrice 4E/T Series Intelligent Flight Battery
Charging Temperature	5° to 40° C (41°F to 104°F)

DJI RC Plus 2 Enterprise

Video Transmission System	O4 Enterprise
Max Transmission Distance (unobstructed, free of interference)	25 km (FCC) 12 km (CE) 12 km (SRRC) 12 km (MIC) Measured in an unobstructed environment free of interference. The above data shows the farthest communication range for one-way, nc under each standard. During your flight, please pay attention to RTH reminder on the DJI Pilot 2 app.
Operating Band of Image Transmission	2.4000-2.4835 GHz 5.725 - 5.850 GHz 5.1GHz (receive only) Operating frequency allowed varies among countries and regions. Refer to local laws and regulations for more information.
Antenna	2T4R, built-in multi-beam high-gain antenna
Video Transmission Transmitter Power (EIRP)	2.4 GHz: < 33 dBm (FCC), < 20 dBm (CE/SRRC/MIC) 5.1 GHz: <23 dBm (CE) 5.8 GHz: <33 dBm (FCC), <14 dBm (CE), <30 dBm (SRRC)
4G Transmission	DJI Cellular Dongle 2
Wi-Fi Protocol	Wi-Fi Direct, Wireless Display, IEEE 802.11a/b/g/n/ac/ax Support 2 × 2 MIMO Wi-Fi, Dual Band Simultaneous (DBS) with dual MAC, up to 1774.5 Mbps data rate (11ax DBS)
Wi-Fi Operating Band	2.4000-2.4835 GHz 5.150-5.250 GHz 5.725-5.850 GHz 5.8 and 5.2GHz frequencies are prohibited in some countries. In some countries, the 5.2GHz frequency is only allowed for use in indoor.
Wi-Fi Transmitter Power (EIRP)	2.4 GHz: < 26 dBm (FCC), < 20 dBm (CE/SRRC/ MIC) 5.1 GHz: <23 dBm (FCC) 5.8 GHz < 23 dBm (FCC/SRRC), < 14 dBm (CE)
Bluetooth Protocol	Bluetooth 5.2
Bluetooth Operating Frequency	2.400-2.4835 GHz
Bluetooth Transmitter Power (EIRP)	<10 dBm
Screen Resolution	1920 × 1200
Screen Size	7.02 inches

Screen Frame Rate	60 fps
Brightness	1400 nits
Touchscreen Control	10 Points Multi-touch
Built-in Battery	2S2P High Energy Density 18650 Lithium-ion Battery (6500 mAh @ 7.2 V) 46.8 Wh
External Battery	Optional, WB37 (4920 mAh @ 7.6 V) 37 Wh
Recharging Type	Supports PD fast charging, with a maximum specification of 20 V/3.25 A USB Type-C charger.
Storage Capacity	ROM 128 G + expandable storage via microSD card
Charging Time	2 hrs for internal battery or internal and external battery. When remote controller is powered off and using a standard DJI charger.
Internal Battery Runtime	3.8 hrs
External Battery Runtime	3.2 hrs
Output Port	HDMI 1.4
Indicators	Status light & power light & permission light, three-color light, brightness can be adjusted according to brightness.
Speaker	Supports buzzer
Audio	Array MIC
Operating Temperature	-20° to 50° C (D228 (-4°F to 122°F)
Storage Temperature	Within one month: -30° to 45° C (-22°F to 113°F) One to three months: -30° to 35° C (-22°F to 95°F) Three months to one year: -30° to 30° C (-22°F to 86°F)
Recharging Temperature	5° to 40° C (41°F to 104°F)
Supported Aircraft Models	Support for Matrice 4T/4E
GNSS	GPS, Galileo, and BeiDou triple-mode, supports dynamic Home Point refresh.
Dimensions	268×163×94.5 mm (L×W×H) Width including external antenna folded, thickness including handle and controller sticks.
Weight	1.15 kg (without external battery)
Model	TKPL 2
System Version	Android 11
External Interfaces	HDMI 1.4, SD3.0, Type-C supports OTG, supports PD charging, maximum power 65W, USB-A supports U interface.
Accessory	Optional strap/waist support

AL1 Spotlight

Weight	99 g (including bracket) Approx. 91 g (excluding bracket)

Dimensions	95×164×30 mm (L×W×H,including bracket) 79×164×28 mm (L×W×H, without bracket)
Max. Power	32 W
Illuminance	4.3±0.2 lux @ 100 meters, 17±0.2 lux @ 50 meters The data was measured in a laboratory environment with the spotlight installed separately on the aircraft at an ambient temperature of 2
Effective Illumination Angle	23° (10% relative illumination)
Effective Illumination Area	1,300 square meters @ 100 meters (10% relative illumination, Normal Mode) 2,200 square meters @ 100 meters (10% central illuminance, Wide fov Mode)
Operating Mode	Supports always-on and strobe modes.
Gimbal Structural Design Range	Tilt: -140° to 50°
Controllable Range:	Tilt: -90° to 35°
Max Control Speed (tilt)	120°/s
Gimbal Alignment Accuracy	±0.1°
Operating Temperature	-20°C to 50°C (-4°F to 122°F)
Mounting	Quick-release hand-tightened screws

AS1 Speaker

Weight	92.5 g (including bracket) Approx. 90 g (excluding bracket)
Dimensions	73×70×52 mm (L×W×H,including bracket) 73×70×47 mm (L×W×H, without bracket)
Max. Power	15 W
Max. Volume	At 1 meter, it can reach 114 decibels (114dB@1m). Data measured in a laboratory environment at 25℃. Actual conditions may vary slightly due to software version, audio source, specific en other factors. The final effect is subject to actual use.
Effective Broadcast Distance	300 m Data measured in a laboratory environment at 25℃. Actual conditions may vary slightly due to software version, audio source, specific en other factors. The final effect is subject to actual use.
Broadcast Mode	Real-time broadcasting (supports echo suppression*), recorded broadcasting, media import (supports transmission and playback), text-to-speech** * Need to upgrade to the latest firmware. ** Currently only supports Chinese and English.
Operating Temperature	-20°C to 50°C (-4°F to 122°F)
Mounting	Quick-release hand-tightened screws