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 differences in batch 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 differences in batch 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%.

Data is for reference only. Actual usage time may vary depending on the flight mode, accessories, and environment. Please pay attention to reminders in the app.

- 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%.

Data is for reference only. Actual usage time may vary depending on the flight mode, accessories, and environment. Please pay attention to reminders in the app.

- 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 supported)
    E-Port Lite interface × 1: supports USB connection to DJI tuning software and some third-party PSDK devices.

    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 sensor may be 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 aircraft.
- 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 reflectivity 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, non-return flights 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 guarantee as to 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 two ports according 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, non-return flights 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 (2 × 2 + 2 × 2 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 ambient 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 USB 2.0 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 25°C.

- 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°C. Actual conditions may vary slightly due to software version, audio source, specific environment, and 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 environment, and other factors. The final effect is subject to actual use.
- Broadcast Mode
    - Real-time broadcasting (supports echo suppression*), recorded broadcasting, media import (supports simultaneous 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