

DJI MATRICE 4D SERIES

Safety Guidelines

安全總覽

安全ガイドライン

안전 가이드

Sicherheitsrichtlinien

Directrices de seguridad

Consignes de sécurité

Direttive sulla sicurezza

Veiligheidsrichtlijnen

Diretrizes de segurança

Diretrizes de Segurança

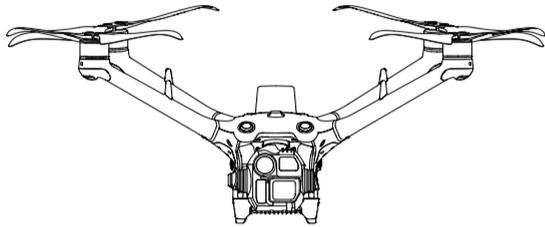
Руководство по технике безопасности

v1.0



PRODUCT CERTIFICATION

This product is qualified according to the delivery inspection. Approved.



Product Name: DJI Matrice 4D

Product Model: M4D

Inspection Date:

Inspector:

Inspection Stamp:

* Refer to the actual product purchased.

Designed by SZ DJI Technology Co., Ltd.

Address: Lobby of T2, DJI Sky City, No. 53 Xianyuan Road, Xili Community, Xili Street, Nanshan District, Shenzhen

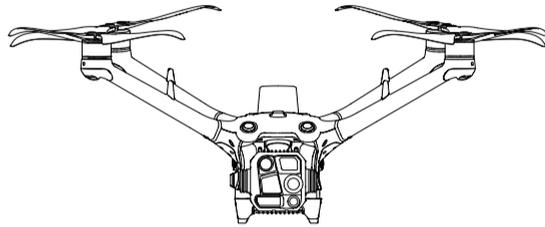
Website: <https://www.dji.com>

Service Hotline: 400-700-0303

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PRODUCT CERTIFICATION

This product is qualified according to the delivery inspection. Approved.



Product Name: DJI Matrice 4TD

Product Model: M4TD

Inspection Date:

Inspector:

Inspection Stamp:

* Refer to the actual product purchased.

Designed by SZ DJI Technology Co., Ltd.

Address: Lobby of T2, DJI Sky City, No. 53 Xianyuan Road, Xili Community, Xili Street, Nanshan District, Shenzhen

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Disclaimer

By using this product, you signify that you have read, understand, and accept the terms and conditions of this guideline and all instructions at <https://enterprise.dji.com/dock-3>. EXCEPT AS EXPRESSLY PROVIDED IN AFTER-SALES SERVICE POLICIES AVAILABLE AT [HTTPS://WWW.DJI.COM/SERVICE-POLICY](https://www.dji.com/service-policy), THE PRODUCT AND ALL MATERIALS AND CONTENT AVAILABLE THROUGH THE PRODUCT ARE PROVIDED "AS IS" AND ON "AS AVAILABLE BASIS" WITHOUT WARRANTY OR CONDITION OF ANY KIND. This product is not intended for children.

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You acknowledge it is your responsibility to comply with EU export control laws and any other applicable export control laws. You shall solely be responsible for the legal responsibility if any use, sale, transfer, rental, or other conduct related to the product fails to comply with the applicable export control laws. DJI shall, in no circumstances, be responsible for your violation of any applicable export control laws. Furthermore, you shall indemnify, defend, and hold harmless DJI, its affiliates, directors, officers, employees, agents, and representatives, from and against any and all claims, demands, suits, causes of action, expenses (including reasonable attorneys' fee), damages, losses, or liabilities of any nature whatsoever, arising from, or allegedly arising from, or related to, your failure to comply with applicable export control laws.

Flight Condition Requirements

WARNING

- The aircraft is designed to operate in good to moderate weather conditions. DO NOT use the aircraft in severe weather conditions including wind speeds exceeding 12 m/s, snow, moderate rain, fog, hail, and lightning.
- DO NOT take off from an altitude more than 6,500 m (21,325 ft) above sea level.
- DO NOT take off from moving objects, such as cars and ships.
- DO NOT fly the aircraft in conditions with a weak GNSS signal, such as indoors or near buildings with severe signal obstruction, and in environments unsuitable for vision positioning, such as low light, significant altitude, or surfaces with weak textures like water or snow.

NOTICE

- Fly in open areas. Avoid flying in areas near large crowds, tall buildings, steel structures, mountains, rocks, or tall trees may affect the accuracy of the GNSS signal and block the video transmission signal.
- To avoid affecting the flight performance and motor service life, DO NOT take off or land the aircraft on sandy or dusty surfaces.
- Avoid interference between the remote controller and other wireless equipment. Make sure to power off nearby Wi-Fi and Bluetooth devices when controlling the aircraft by the remote controller.
- Be extremely alert when flying near areas with magnetic or radio interference. Pay close attention to the video transmission quality and signal strength on DJI Pilot 2. Return to the Home Point and land the aircraft if prompted to do so on DJI Pilot 2 to ensure flight safety. Sources of electromagnetic interference include but are not limited to: high voltage lines, large-scale power transmission stations, radar stations, mobile base stations, and broadcasting towers. Strong electromagnetic or electric field interference may cause damage to the aircraft or even crashing.

Pre-Flight Checklist

When used with the dock, complete the pre-flight check following the instructions in the dock package. When used with the remote controller, complete the following pre-flight check:

- Make sure the remote controller and the aircraft batteries are fully charged and the Intelligent Flight Battery is installed firmly. Check that both of the battery buckles and the battery locking arms are secure.
- Make sure there are no foreign objects inside the aircraft or its components, such as water, oil, soil, or sand. Make sure the air vents of the aircraft, the cooling holes of the camera, and the ventilation holes of the motor are not blocked.
- Make sure the propellers are of the same model and securely mounted. Make sure the motors or propellers are not damaged or deformed, there are no foreign objects in or on the motors or propellers, and the propeller blades are unfolded.
- Make sure the lenses of the vision systems, the cameras, the glass of the infrared sensors, and the auxiliary lights are clean, free of stickers, and not blocked in any way.
- Make sure to remove the gimbal protector before powering on the aircraft.
- Make sure the covers of all the ports have been closed properly if not used. Otherwise, the ingress protection performance will be affected.
- Make sure the remote controller antennas are adjusted to the proper position.
- Make sure DJI Pilot 2 and the aircraft firmware have been updated to the latest version.
- Power on the aircraft and the remote controller, and toggle the flight mode switch to N-mode. Make sure the status LED on the remote controller and the battery level indicators on the aircraft are solid green. This indicates that the aircraft and the remote controller are linked, and the remote controller is in control of the aircraft.
- Make sure your flight area is inside approved zones for UAVs, and flight conditions are suitable for flying the aircraft. Place the aircraft on open and flat ground. Make sure there are no obstacles, buildings, or trees nearby and that the aircraft is 5 m away from the pilot. The pilot should be facing the rear of the aircraft.
- To ensure flight safety, enter the flight view of DJI Pilot 2 and check the parameters on the preflight checklist.
- Make sure DJI Pilot 2 is properly opened to assist your operation of the aircraft. WITHOUT THE FLIGHT DATA RECORDED BY THE DJI PILOT 2 APP, IN CERTAIN SITUATIONS (INCLUDING THE LOSS OF YOUR AIRCRAFT), DJI MAY NOT BE ABLE TO PROVIDE AFTER-SALES SUPPORT TO YOU OR ASSUME LIABILITY.
- Divide the airspace for flight when multiple aircrafts are operating simultaneously in order to avoid collision mid-air.

Flight Safety Notice

WARNING

- Stay away from rotating propellers and motors.
- Make sure you are not under the influence of alcohol, drugs, or anesthesia or suffering from dizziness, fatigue, nausea, or any other physical or mental conditions that could impair your ability to operate the aircraft safely.
- Stop using the aircraft if it does not work properly. DO NOT use an aircraft that has been involved in a collision. Contact DJI Support or a DJI-authorized dealer for assistance.
- Make sure to follow the prompts in DJI Pilot 2 to return to home and land as soon as possible if warned about low battery, strong winds, compass calibration, or motor overload, etc.
- The aircraft cannot avoid obstacles during RTH when there is insufficient light. Use the remote controller to control the speed and altitude of the aircraft to avoid collisions during RTH when the remote controller signal is normal.

- Wait for the propellers to completely stop spinning after landing, then power off the aircraft and the remote controller. To avoid burns, DO NOT directly touch the motor.
- Pay attention and control the aircraft at all times during flight. The safety and flight assistance features of the vision system and DJI Pilot 2 are meant to assist the pilot, not replace the control of the aircraft. Environmental conditions such as lighting and the surface texture of obstacles may impact the performance of the vision system. Intelligent flight control features such as precision landing and obstacle avoidance are disabled when the vision system functions are impaired. Keep the aircraft within VLOS and pay close attention to its flight. Use sound discretion to operate the aircraft and manually avoid obstacles in a timely manner. It is important to set an appropriate failsafe and RTH altitude before each flight.
- Only use genuine DJI parts or DJI-authorized parts. Unauthorized parts may cause system malfunctions and compromise flight safety.
- DO NOT modify or alter the aircraft, its components, or parts. Unauthorized modification may cause malfunctions and affect the functionality and safety of the aircraft.
- DO NOT power on the aircraft when water is inside the aircraft or its components. Otherwise, it may cause permanent component damage.
- Keep the aircraft at a safe distance away from people and animals when updating the firmware, calibrating systems, or setting up parameters.
- DO NOT expose the thermal 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.
- DO NOT look directly at the laser range finder or the NIR auxiliary light when the aircraft is powered on.
- DO NOT point the beacon directly into eyes to avoid injury.
- Make sure that the accessories are correctly and securely mounted on the aircraft before use. Otherwise, they may vibrate or fall from the aircraft during flight. When installing any accessories, make sure that the total weight of the aircraft does not exceed the maximum takeoff weight. In addition, the accessories must be installed in a location so that the center of gravity is maintained, or close to the center of aircraft top shell to keep the aircraft stable. Make sure the vision systems, the infrared sensing system, the auxiliary light, and the RTK module are not blocked.

NOTICE

- DO NOT use accessories that are specifically for the DJI MATRICE™ 4D Series with other products. You take full responsibility for any damage caused by the use of accessories with other products.
- If using a third-party device or payload on the DJI Matrice 4D Series aircraft, read the manual and safety documents of the third-party device or the payload carefully. Even if the third-party equipment can be used with DJI equipment, DJI does not guarantee the third-party equipment can function properly or safely. DJI is not responsible for any property or personal damage caused by a third-party device or payload.
- The third-party payload should have a protection rating equal to or higher than that of the aircraft, and the ports should be properly sealed. If any of the seals fail and water leaks into the aircraft, it will seriously affect flight safety.

Battery Safety Notice

WARNING

- DO NOT leave the battery covered in moisture or out in the rain. DO NOT drop the battery into water. Otherwise, an explosion or fire may occur. If the battery comes into contact with liquid, immediately remove the battery, place it in a dry and open area away from flammable materials, and contact DJI Support or a DJI authorized dealer for instructions.
- DO NOT use non-DJI batteries or chargers. Go to <https://www.dji.com> to purchase new batteries or chargers. DJI takes no responsibility for any damage caused by non-DJI batteries or chargers.
- DO NOT use swollen, leaked, or damaged batteries.
- The batteries should be used at the specified temperature range. A high temperature can cause an explosion or fire. A low temperature will reduce the performance of a battery.
- DO NOT disassemble or pierce batteries in any way.
- The electrolytes in the battery are highly corrosive. If any electrolytes come into contact with your skin or eyes, immediately wash the affected area with water and seek medical support.
- Keep the batteries out of the reach of children. Seek professional medical support immediately if a child accidentally swallows any part of the battery.
- DO NOT use a battery if it is involved in a crash or heavy impact.
- DO NOT charge the battery immediately after flight. The battery temperature may be too high and may cause serious damage to the battery. Allow the battery to cool down to near room temperature before charging. Charge the battery at a temperature range of 5° to 45° C (41° to 113° F). The ideal charging temperature range is 22° to 28° C (72° to 82° F). Charging at the ideal temperature range can prolong battery life.
- DO NOT leave the batteries near heat sources such as a furnace or heater, under direct sunlight, or inside a vehicle on hot days.
- DO NOT store the battery for an extended period after fully discharging. Otherwise, the battery may over-discharge and cause irreparable damage to the battery cell. Remove the battery from the aircraft and store it separately if the aircraft is not operating inside the dock for an extended period.
- If a battery with a low battery level has been stored for an extended period of time, the battery will enter deep hibernation mode. Recharge the battery to bring it out of hibernation.
- Regularly check the battery level and battery cycle counts. The battery is rated for 400 cycles. The stability of a battery will be affected after the rated cycles. In this case, make sure to replace the battery. Otherwise, you are responsible for device damage and third-party losses caused by batteries exceeding the rated cycles.
- DO NOT use the aircraft in strong electrostatic (e.g., thunderstorms) or electromagnetic environments.
- DO NOT place a battery directly on any conductive surface such as a metal rack.
- DO NOT connect the positive and negative poles of a battery with a cable or other metal objects. Otherwise, the battery will short-circuit.
- Replace the battery in time if a prompt appears in the app (DJI FlightHub 2 or DJI Pilot 2). The dock and the aircraft cannot perform flight tasks when the battery service life is reached.
- Examine and clean the battery, the battery ports, and the battery compartment regularly. DO NOT use alcohol or other flammable solvents for cleaning.
- Observe the following when transporting or storing the battery separately:
 - DO NOT store the battery in environments with a temperature higher than 50° C (122° F).
 - DO NOT place batteries on or near wires or other metal objects.
 - DO NOT attempt to transport a damaged battery or a battery with a battery level higher than 30%.
 - If you need to bring the batteries onto an airplane, make sure to comply with the local battery transportation policies and regulations.

Specifications

Aircraft (Model: M4D/M4TD)

Operating Temperature	-20° to 50° C (-4° to 122° F)
Hovering Accuracy Range (windless or breezy, with RTK positioning)	Horizontal: ±0.1 m, vertical: ±0.1 m
O4+ Enterprise	
Operating Frequency & Transmitter Power (EIRP) ^[1]	2.4000-2.4835 GHz: <33 dBm (FCC), <20 dBm (CE/SRRC/MIC)
	5.150-5.250 GHz (CE): 5.170-5.250 GHz: <23 dBm (FCC/CE)
	5.725-5.850 GHz: <33 dBm (FCC/SRRC), <14 dBm (CE)
Bluetooth 5.1	
Operating Frequency & Transmitter Power (EIRP) ^[1]	2.4000-2.4835 GHz: ≤10 dBm
Intelligent Flight Battery	
Capacity	6768 mAh
Standard Voltage	22.14 V
Charging Temperature	5° to 45° C (41° to 113° F)

[1] Operating frequency allowed varies among countries and regions. Refer to local laws and regulations for more information.

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免責聲明

使用本產品前，請您仔細閱讀並遵守本安全總覽、前往 <https://enterprise.dji.com/dock-3> 閱讀《安裝設定手冊》、《使用者手冊》和《DJI FlightHub 2 使用說明》等指導文件。若您未提供飛行記錄，DJI 可能會無法分析事故原因，進而無法向您提供保固等售後服務。本產品不適合兒童使用。

出口法規遵循免責聲明

您需遵守適用的歐盟及其他適用的出口管制法律，任何由於您使用、銷售、轉讓、出租本產品或其他行為而違反前述適用的出口管制法律的行為，均由您獨立承擔相應的法律責任。無論任何情況，DJI 均不對您違反適用的出口管制法律的行為負責。您亦應保障 DJI 及其附屬機構、管理人員、員工、代理商及代表人免因您前述的行為而遭受任何法律責任和損害，並承擔相關費用，包括但不限於訴訟費、律師費、差旅費等。

飛行條件要求

警告

- 請在天氣狀況及環境條件良好的情況下飛行。請勿在惡劣天氣狀況下飛行，例如強風（風速 12 公尺 / 秒以上）、下雪、中雨、打雷閃電、起霧等天氣。
- 請勿在海拔 6500 公尺以上地區起飛。
- 請勿在移動的物體表面上起飛（例如行進中的汽車、船隻）。
- 在 GNSS 訊號差（如室內或訊號遮蓋嚴重的建築物旁）且視覺定位環境惡劣（如遠境光線過暗、距離地面較遠、表面紋理較弱如水面或草地）的條件下飛行時，請務必保持謹慎。

注意

- 務必在遠離人群、開闊空曠處釋放飛行器。高大的附節建築物、山體、岩石、樹林可能會對飛行器的 GNSS 訊號及飛行器影像傳輸訊號造成干擾。
 - 起降時，請避開沙塵路、沙溝、沙灘等環境，否則會影響飛行性能及馬達使用壽命。
 - 由於其他無聲裝置會對控制系統產生干擾，建議使用控制系統飛行器飛行時，關閉周邊不必要的 Wi-Fi 和藍牙裝置。
 - 在電磁干擾源附近飛行時務必保持謹慎。持續觀察 DJI Pilot 2 App 的影像傳輸畫面是否卡頓，以及影像傳輸訊號強度是否微弱。必要時，請按照 DJI Pilot 2 App 提示盡快返航降落，以確保飛行安全。電磁干擾源包括但不限於：高壓電線、高壓輸電站、雷達站、行動電話基地台和電視廣播訊號塔。強力的磁場或電場干擾可能會導致飛機損壞甚至墜機。
- ## 飛行前檢查表
- 搭配 Dock 使用時，請按照 Dock 的說明書完成航線試飛檢查。搭配遙控器使用時，請按照以下步驟完成飛行前檢查：
- 確保遙控器、飛行器的電池電量充足，且智慧飛行電池安裝正確。兩側的電池卡扣已卡到位，電池鎖扣已鎖緊。
 - 確保飛行器內部沒有任何異物（如：水、油、沙、土等），飛行器通風口、相機的散熱孔，以及馬達通風孔未受到阻塞。
 - 確保飛行器螺旋槳型號一致且安裝緊固。確保馬達和槳葉乾淨無異物、無破損、變形，且槳葉完全展開。
 - 確保飛行器的相機、相機鏡頭，以及紅外線感測器、補光燈的鏡片均無異物、髒污或指紋等，且未鬆動。
 - 確保移除雲台保護罩，使雲台能夠無阻順暢地活動。
 - 對外的連接埠未使用時，請確保機身所有連接埠的保護膠塞均扣緊到位，否則將影響產品的防護性能。
 - 確保遙控器天線已展開。
 - 確保軟體及 DJI Pilot 2 App 已更新至最新版本。
 - 開啟遙控器與飛行器，確保飛行權位切換開關位於 N 檔，並檢查遙控器狀態指示燈和飛行器電池電量指示燈是否亮起綠燈，確保飛行器與遙控器匹配狀態正常，且具有飛行器控制權。
 - 確保飛行場地在遠飛空域內，且該飛行場地適合進行飛行。將飛行器放置於戶外平整開闊地帶，確保周邊無障礙物、建築物、樹木等，操作者距離飛行器 5 公尺並面朝機尾。
 - 進入 DJI Pilot 2 App 飛行介面，根據「飛行檢查」列表檢查飛行器相關參數，確保相關功能參數符合飛行需求，以保障飛行安全。
 - 確認 DJI Pilot 2 App 已執行以協助飛行。如在飛行時未執行 DJI Pilot 2 App，在特定情況下（包括飛行器遺失），DJI 將無法向您提供保固等售後支援服務，亦無須向您承擔相應責任。
 - 若多架飛行器同時作業，請劃分空域飛行，避免在空中相撞，引發嚴重安全事故。

安全操作須知

警告

- 切勿靠近旋轉中的螺旋槳和馬達。
- 使用者不得在飲酒、吸毒、藥物麻醉、頭暈、四肢無力、噁心等其他身體狀況不佳或精神不濟的情況下操作本產品。
- 使用者必須立即停止使用發生事故（例如碰撞或傾覆等）或飛行狀態異常的飛行器。在 DJI 或 DJI 授權的維修中心維修該飛行器前，使用者不得繼續使用該飛行器。
- 在飛行過程中，若 App 顯示低電量、強風警告、指南針校正、馬達超載等提示，請按照指示操作，及時返航降落，切勿強行飛行。
- 在返航過程中，若光照條件過暗，飛行器將無法自行躲避障礙物；若遙控訊號正常，則可透過遙控裝置控制飛行速度及高度。
- 降落後，請確保馬達已完全停止後再離開航機和遙控器電源。避免觸碰馬達表面，以防燙傷。
- 請全程保持對飛行器的控制，視覺系統及 DJI Pilot 2 App 提供的資訊僅用於輔助飛行。在特定飛行模式下或特定飛行環境中，視覺系統將無法正常運作，精準降落或主動煞車等功能也無法使用。請依據內置觀察，合理判斷飛行狀況，及時躲避障礙物，並根據飛行環境設定相應的飛行及返航高度。

