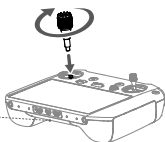


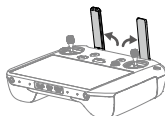
## 4. Preparing the Remote Controller



Remove the control sticks from the storage slots

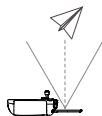
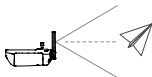


Attach the control sticks and twist to secure



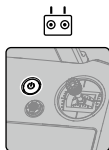
Unfold the antennas

The optimal transmission range is where the antennas face the aircraft, with the angle between the antennas and the back of the remote controller being  $180^\circ$  or  $270^\circ$ .

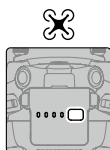


- DO NOT operate other wireless devices at the same frequency as the remote controller, to avoid signal interference.
- A warning prompt appears in DJI Pilot 2 if the transmission signal is weak. Adjust the antennas to make sure that the aircraft is within the optimal transmission range.

## 5. Getting Ready for Takeoff



Power on the remote controller



Power on the aircraft



Launch DJI Pilot 2



A DJI account and internet connection are required to activate the aircraft and the remote controller. Before activating the aircraft in DJI Pilot 2, power on the remote controller and follow the prompts to activate.

## 6. Flight

### • Manual Takeoff/Landing

**Start/Stop Motors:**  
perform Combination  
Stick Command and  
hold for two seconds.

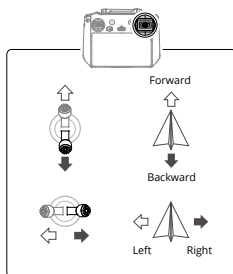
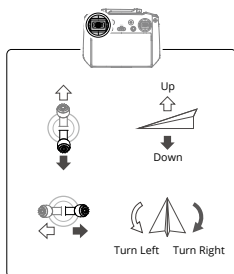


**Takeoff:**  
slowly push the  
left control stick  
(mode 2) up to  
take off.



**Landing:**  
slowly push the left  
control stick (mode 2)  
down until the aircraft  
lands. Hold for three  
seconds to stop the  
motors.

### • Control Stick Mode



The default control stick mode is mode 2. The left control stick controls the altitude and heading of the aircraft, while the right control stick controls the forward, backward, and sideward movements.



- Always set an appropriate RTH mode and RTH altitude before takeoff.
- Press the Flight Pause button for emergency braking during flight.

## Specifications

### Aircraft (Model: M3M)

|                                                 |                                           |
|-------------------------------------------------|-------------------------------------------|
| Takeoff Weight (with propellers and RTK module) | 951 g                                     |
| Max Takeoff Weight                              | 1050 g                                    |
| Max Ascent Speed                                | 8 m/s (Sport mode)<br>6 m/s (Normal mode) |

|                                                          |                                                                                                       |
|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| Max Descent Speed                                        | 6 m/s (Sport mode)<br>6 m/s (Normal mode)                                                             |
| Max Horizontal Speed<br>(near sea level, no wind)        | 21 m/s (Sport mode), 19 m/s (Sport mode, EU)<br>15 m/s (Normal mode)                                  |
| Max Service Ceiling Above<br>Sea Level (without payload) | 6,000 m                                                                                               |
| Max Flight Time<br>(without wind)                        | 42 mins                                                                                               |
| Max Hover Time<br>(without wind)                         | 37 mins                                                                                               |
| Max Wind Speed<br>Resistance                             | 12 m/s                                                                                                |
| Operating Temperature                                    | -10° to 40° C (14° to 104° F)                                                                         |
| GNSS                                                     | GPS + Galileo + BeiDou + GLONASS (GLONASS is supported only when RTK module is enabled)               |
| Operating Frequency                                      | 2.400-2.4835 GHz, 5.725-5.850 GHz*                                                                    |
| Transmitter Power (EIRP)                                 | 2.4 GHz: <33 dBm (FCC), <20 dBm (CE/SRRC/MIC)<br>5.8 GHz: <33 dBm (FCC), <14 dBm (CE), <30 dBm (SRRC) |
| Interface                                                | USB-C, microSD card slot, PSDK port                                                                   |
| <b>Gimbal</b>                                            |                                                                                                       |
| Angular vibration range                                  | ±0.007°                                                                                               |
| Controllable Rotating<br>Range                           | Tilt: -90° to +35°                                                                                    |
| <b>Wide Camera</b>                                       |                                                                                                       |
| Sensor                                                   | 4/3 CMOS; Effective pixels: 20 MP                                                                     |
| Lens                                                     | FOV: 84°<br>Format Equivalent: 24 mm<br>Aperture: f/2.8-f/11<br>Focus: 1 m to ∞ (with autofocus)      |
| <b>Multispectral Camera</b>                              |                                                                                                       |
| Sensor                                                   | 1/2.8" CMOS; Effective Pixels: 5 MP                                                                   |
| Lens                                                     | FOV: 73.91°<br>Format Equivalent: 25 mm<br>Aperture: f/2.0<br>Focus: N/A                              |
| Narrow Band Filter                                       | Green (G): 550±16 nm, Red (R): 650±16 nm, Red edge (RE): 730±16 nm, Near-infrared (NIR): 860±26 nm    |
| <b>Intelligent Flight Battery</b>                        |                                                                                                       |
| Capacity                                                 | 5000 mAh                                                                                              |
| Standard Voltage                                         | 15.4 V                                                                                                |
| Max Charging Voltage                                     | 17.6 V                                                                                                |
| Battery Type                                             | LiPo 4S                                                                                               |
| Energy                                                   | 77 Wh                                                                                                 |
| Weight                                                   | 335.5 g                                                                                               |
| Charging Temperature                                     | 5° to 40° C (41° to 104° F)                                                                           |
| <b>Battery Charger</b>                                   |                                                                                                       |
| Input                                                    | 100-240 V AC, 50-60 Hz, 2.5 A                                                                         |

|        |                                                                                                                                                                                                    |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Output | Max. 100 W (Total)<br>When both ports are in use, the maximum output of one of the ports is 82 W. The charger will dynamically allocate the output of the two ports accordingly to the power load. |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Remote Controller (Model: RM510B)

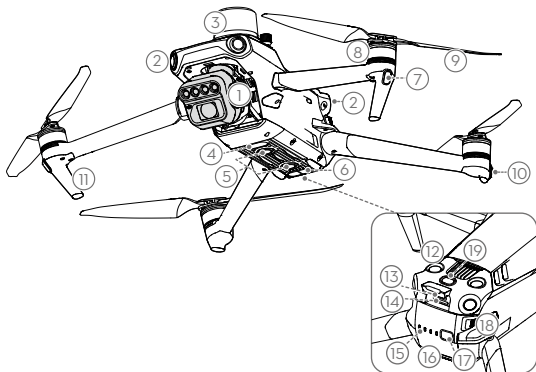
|                                                                   |                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Weight                                                            | Approx. 680 g                                                                                                                                                                                                                                                                                                                                                                   |
| Battery                                                           | Li-ion (5000 mAh @ 7.2 V)                                                                                                                                                                                                                                                                                                                                                       |
| Storage Capacity                                                  | ROM 64GB + expandable storage via microSD card                                                                                                                                                                                                                                                                                                                                  |
| Operating Time                                                    | 3 hrs                                                                                                                                                                                                                                                                                                                                                                           |
| Operating Temperature                                             | -10° to 40° C (14° to 104° F)                                                                                                                                                                                                                                                                                                                                                   |
| Charging Temperature                                              | 5° to 40° C (41° to 104° F)                                                                                                                                                                                                                                                                                                                                                     |
| GNSS                                                              | GPS + Galileo + GLONASS                                                                                                                                                                                                                                                                                                                                                         |
| <b>O3 Enterprise</b>                                              |                                                                                                                                                                                                                                                                                                                                                                                 |
| Operating Frequency                                               | 2.400-2.4835 GHz, 5.725-5.850 GHz*                                                                                                                                                                                                                                                                                                                                              |
| Max Transmission Distance<br>(Unobstructed, free of interference) | 15 km (FCC), 8 km (CE/SRRC/MIC)                                                                                                                                                                                                                                                                                                                                                 |
| Max Transmission Distance**<br>(with interference)                | Strong Interference (urban landscape, limited line of sight, many competing signals):<br>1.5-3 km (FCC/CE/SRRC/MIC)<br>Medium Interference (suburban landscape, open line of sight, some competing signals):<br>3-9 km (FCC), 3-6 km (CE/SRRC/MIC)<br>Weak Interference (open landscape, abundant line of sight, few competing signals):<br>9-15 km (FCC), 6-8 km (CE/SRRC/MIC) |
| Transmitter Power (EIRP)                                          | 2.4 GHz: <33 dBm (FCC), <20 dBm (CE/SRRC/MIC)<br>5.8 GHz: <33 dBm (FCC), <14 dBm (CE), <23 dBm (SRRC)                                                                                                                                                                                                                                                                           |
| <b>Wi-Fi</b>                                                      |                                                                                                                                                                                                                                                                                                                                                                                 |
| Protocol                                                          | 802.11 a/b/g/n/ac/ax<br>Support 2x2 MIMO Wi-Fi                                                                                                                                                                                                                                                                                                                                  |
| Operating Frequency                                               | 2.400-2.4835 GHz, 5.150-5.250 GHz, 5.725-5.850 GHz*                                                                                                                                                                                                                                                                                                                             |
| Transmitter Power (EIRP)                                          | 2.4 GHz: <26 dBm (FCC), <20 dBm (CE/SRRC/MIC)<br>5.1 GHz: <26 dBm (FCC), <23 dBm (CE/SRRC/MIC)<br>5.8 GHz: <26 dBm (FCC/SRRC), <14 dBm (CE)                                                                                                                                                                                                                                     |
| <b>Bluetooth</b>                                                  |                                                                                                                                                                                                                                                                                                                                                                                 |
| Protocol                                                          | Bluetooth 5.1                                                                                                                                                                                                                                                                                                                                                                   |
| Operating Frequency                                               | 2.400-2.4835 GHz                                                                                                                                                                                                                                                                                                                                                                |
| Transmitter Power (EIRP)                                          | <10 dBm                                                                                                                                                                                                                                                                                                                                                                         |

\* 5.8GHz and 5.1GHz frequencies are prohibited in some countries. In some countries, the 5.1GHz frequency is only allowed for indoor use.

\*\* The data is tested in an environment with no obstructions for a variety of typical interference intensity scenarios, without a guarantee of the actual flight distance, for reference only.

## 飞行器

DJI™ MAVIC™ 3M 飞行器配备水平全向、上视、下视视觉系统及红外传感系统<sup>\*</sup>，可在室内外稳定悬停、飞行，具备自动返航、全向障碍物感知功能。飞行器内置 DJI AirSense 可检测周围航空器情况。高性能多相机负载使用高精度三轴云台实现增稳，配合 DJI PILOT™ 2 App 可实时查看多光谱和可见光的观测画面。配备 RTK 模块可提供厘米级定位<sup>\*\*</sup>，顶部的多光谱光强传感器可检测实时入射光强，对成像进行补偿，以获得更精确的多光谱信息，助力农业监测与环境监察工作高效完成。



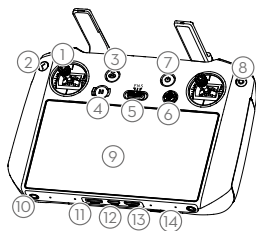
- |              |                      |
|--------------|----------------------|
| 1. 一体式云台相机   | 11. 脚架（内含天线）         |
| 2. 水平全向视觉系统  | 12. 上视视觉系统           |
| 3. RTK 模块    | 13. 充电 / 调参接口（USB-C） |
| 4. 补光灯       | 14. 相机 microSD 卡槽    |
| 5. 下视视觉系统    | 15. 电池电量指示灯          |
| 6. 红外传感系统    | 16. 智能飞行电池           |
| 7. 机头指示灯     | 17. 电池开关             |
| 8. 电机        | 18. 电池卡扣             |
| 9. 螺旋桨       | 19. 多光谱光强传感器         |
| 10. 飞行器状态指示灯 |                      |

<sup>\*</sup> 视觉系统及红外传感系统有使用环境与条件要求，请阅读《用户手册》了解安全注意事项。

<sup>\*\*</sup> 获取厘米级定位需使用网络 RTK 服务、DJI D-RTK 2 高精度 GNSS 移动站（额外购买）或使用后处理差分数据（实时 RTK 信号弱时推荐该方法）。

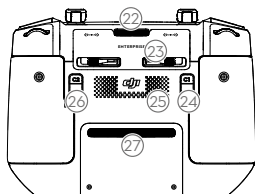
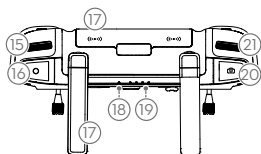
## 遥控器

DJI RC Pro Enterprise 遥控器采用 O3 行业版高清图传技术，配合完备的功能按键可在最大 15 千米 \* 通信距离内完成飞行器和相机的操作与设置。遥控器内置麦克风以及 5.5 英寸 1920×1080p 高亮触摸屏，具备蓝牙及卫星定位等功能，并支持通过 Wi-Fi 连接至互联网。



1. 摇杆
2. 返回按键 / 系统功能按键
3. 智能返航按键
4. 急停按键
5. 飞行档位切换开关
6. 五维按键
7. 电源按键
8. 确认按键
9. 触摸显示屏
10. M4 螺纹孔
11. microSD 卡槽
12. USB-C 接口
13. Mini HDMI 接口
14. 麦克风

15. 云台俯仰控制拨轮
16. 录像按键
17. 天线
18. 状态指示灯
19. 电量指示灯
20. 对焦 / 拍照按键
21. 相机设置拨轮



22. 出风口
23. 摇杆收纳槽
24. 自定义功能按键 C1
25. 扬声器
26. 自定义功能按键 C2
27. 入风口（打开后盖可安装 DJI Cellular 模块）

\* 在开阔无遮挡、无电磁干扰的环境飞行，并且飞行高度为 120 米左右，在 FCC 标准下遥控器可以达到最大通信距离。