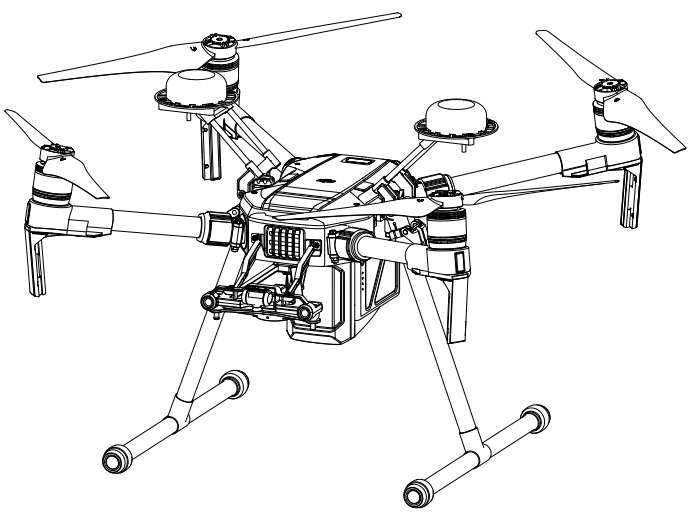
MATRICE 200 SERIES
M210/M210 RTK

Quick Start Guide
快速入门指南

V1.0



Matrice 210/Matrice 210 RTK

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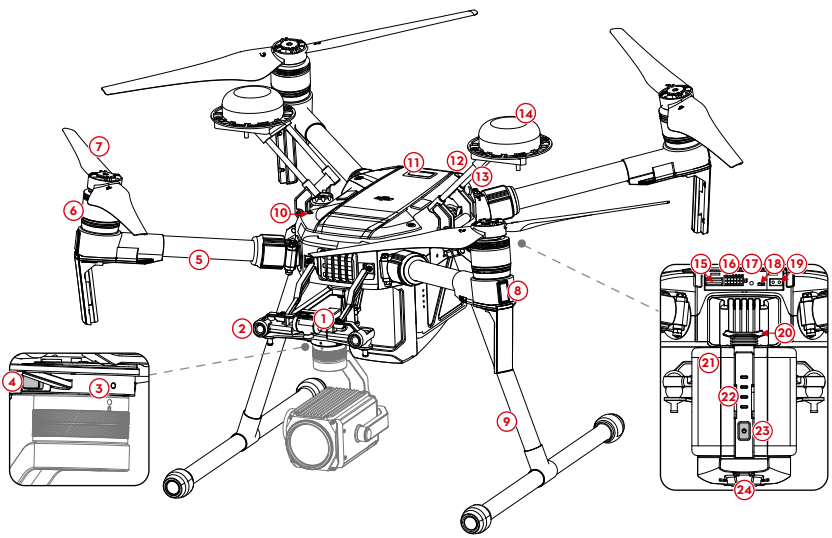
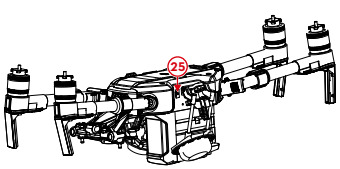
The DJI™ MATRICE™ 210/Matrice 210 RTK (M210/M210 RTK) is a powerful industrial-grade flight platform with world-class agility and speed, two barometers, and redundant IMUs for maximum reliability, and new, smart flight features that make capturing complex shots easy. The aircraft's visual sensors enable enhanced hovering precision even when flying indoors or in environments where GNSS is unavailable. The drone's new airframe design gives it an IP43 Ingress Protection Rating, in accordance with the global IEC 60529 standard. The M210/M210 RTK's mechanical design, along with quick-release landing gears and mounted folding arms, makes it easy to transport, store, and prepare for flight.

The M210/M210 RTK is compatible with many of DJI's DGC2.0 connector gimbals, supporting a single upward gimbal or dual downward gimbals.* It is equipped with many expansion ports to broaden its applications. The M210 RTK has a built-in DJI D-RTK™, which provides more accurate heading data for positioning. New Intelligent Flight Batteries feature upgraded battery cells and an advanced power management system. Without a payload, the M210 provides up to 27 minutes of flight with standard batteries and 38 minutes with high-capacity batteries. The M210 RTK offers up to 23-minute and 32-minute no-payload flight times with standard and high-capacity batteries, respectively.*

This manual uses the M210 RTK and ZENMUSE™ Z30 as an example to demonstrate setup.





Folding

1. FPV Camera
2. Forward Vision System
3. DJI Gimbal Connector v2.0 (DGC2.0)
4. Gimbal Detachment Button
5. Frame Arms
6. Motors
7. Propellers
8. ESC LEDs
9. Landing Gears
10. Upward Gimbal Mounting Position
11. Upward Infrared Sensor
12. Aircraft Status Indicator
13. D-RTK Mounting Bracket
14. D-RTK Antennas**
15. USB Port
16. Expansion Ports
17. RC/Aircraft Linking Button and Indicator
18. USB Mode Switch
19. Extended Power Port (XT30)
20. Battery Removal Button
21. Intelligent Flight Batteries
22. Battery Level Indicators
23. Power Button
24. Downward Vision System
25. Micro SD Card Slot

* Gimbals can be purchased separately from the official DJI Online Store. A GPS module is required when using a single upward gimbal. DO NOT use an upward and downward gimbal simultaneously. Please refer to the user manual for more details about expansion ports, upward gimbals, and downward gimbals.
Please note that maximum flight times are measured in ideal flight conditions. Actual flight times may vary depending on your environment.
DO NOT disassemble the aircraft shell, otherwise it will not be covered under warranty.

**Please note that this list of items applies to the M210 RTK. Although similar, the M210 aircraft does not include the D-RTK antennas, the D-RTK Ground System Kit or the Datalink Pro Air System.

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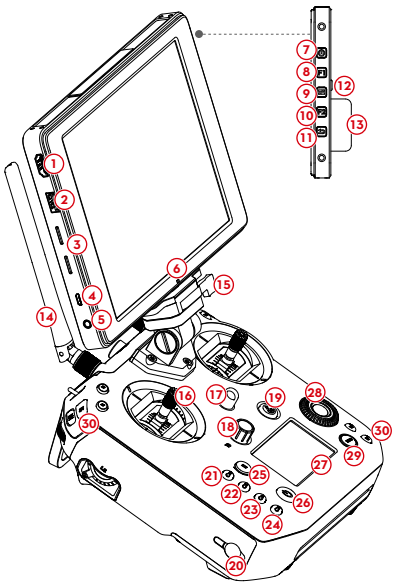
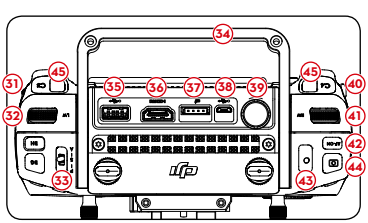
Cendence Remote Controller

The Cendence™ remote controller features DJI's LIGHTBRIDGE™ technology for a maximum transmission distance of up to 4.3 mi (7 km).* Equipped with a DJI CrystalSky™ 7.85 inch monitor, it displays a live HD view directly via the built-in DJI Pilot app or DJI GO™ 4 app, providing a precise and responsive flying experience. Dual frequency support makes the HD video downlink more stable. In Dual Remote Controller Mode, two remote controllers control the aircraft and camera separately, even when they are up to 328 feet (100 m) apart. The Cendence remote controller works with a WB37 Intelligent Battery, which can be fully charged via the charging port in about 2 hours and 24 minutes with a 180 W charger, or with the Intelligent Battery Charging Hub in about 1 hour and 11 minutes. The maximum run time of the remote controller is approximately 4 hours without supplying power to a monitor and with Dual Remote Controller mode disabled.*



1. HDMI Port
2. USB Port
3. Micro SD Card Slot
4. Micro USB Port
5. Headphone Jack
6. Light-Sensitive Port
7. Power Button
8. Customizable Button (F1)
9. Setting Button
10. Customizable Button (F2)
11. Back Button
12. Battery Release Button
13. WB37 Intelligent Battery
14. Antennas
15. Monitor Mounting Bracket
16. Control Sticks
17. Strap Hook
18. Focal Adjustment Knob
19. Return-to-Home (RTH) Button
20. Power Port
21. EV Setting Button
22. Shutter Setting Button
23. Aperture Setting Button
24. ISO Setting Button
25. Pause Button
26. Power Button
27. Remote Control Display
28. Camera Settings Dial
29. Customizable Button Setting Menu
30. Customizable Buttons (BA-BH)

31. Left Lever
32. Left Dial (Gimbal Pitch)
33. Flight Mode Switch
34. Handle Bar
35. USB Port
    (for Mobile Device Connection)
36. HDMI A Port (for Video Output)
37. CAN Bus Port (Extension Port)
38. Micro USB Port
39. SDI Port (for Video Output)
40. Right Lever
41. Right Dial (Gimbal Pan)
42. AF Button (Autofocus)
43. Record Button
44. Shutter Button
45. Customizable Buttons (C1-C4)



* The remote controller can reach its maximum transmission distance (FCC) in a wide open area with no electro-magnetic interference at an altitude of about 400 feet (120 meters).
To comply with local regulations, the 5.8 GHz frequency is not available in some countries and regions..
Maximum run time is estimated without supplying power to a smart device or monitor.
For more information about Dual Remote Controller mode, please refer to the user manual.

Using Matrice 210/Matrice 210 RTK

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1. Downloading DJI Assistant 2

Download and install DJI Assistant™ 2 on your computer via the website link below:
http://www.dji.com/matrice-200-series

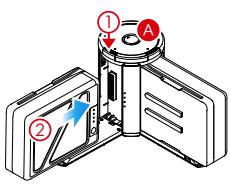
Ensure that the built-in DJI GO 4 app and DJI Pilot app are working normally. This manual uses the DJI GO 4 app as an example.

Internet First-time activation requires your DJI account and an internet connection.

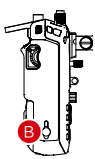
DJI Assistant 2 is only available for Windows 7 (or later) or OS X 10.11 (or later).

2. Charging the Batteries

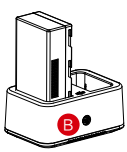
- Press the release button and open the corresponding charging port cover.
- Insert the Intelligent Flight Battery into the charging port to begin charging.
- Be sure to press the release button when removing fully charged batteries.



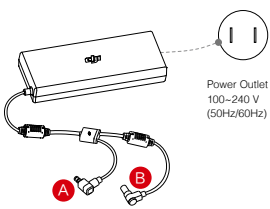
Using the IN2CH Charging Hub, charging time is approximately 1 hour and 30 min (two batteries)*



Charging Time:
2 hours and 24 min*



Using the WCH2 Charging Hub, charging time is approximately 1 hour and 11 min (one battery)*



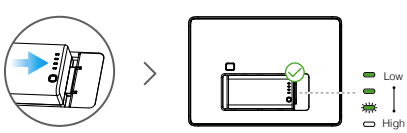
*Provided charger

- DO NOT charge TB50-M200 and WB37 batteries simultaneously.
- When charging is complete, the LED lights on the Intelligent Flight Battery will turn off, and the LED on the Charging Hub will turn solid green.
- When charging is complete, the display on the remote controller will show 100%.
- The Charging Hub will sound an alert when the battery has been fully charged. The alert can be turned on or off by toggling the switch under the hub.
- Connect the Intelligent Flight Batteries to the aircraft and power them on. If battery temperature is lower than 15° C, the system will auto heat the batteries to maintain a temperature between 15° and 20° C.
- Pairing Intelligent Flight Batteries is recommended. This can be done with the DJI GO 4 app.

3. Preparing the Remote Controller

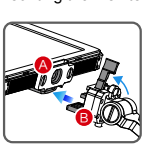
Mounting Monitor and Remote Controller Batteries

CrystalSky monitors and the Cendence remote controller use the same batteries.
Put the battery into the Battery Slot, then slide it to the end until you hear a click.

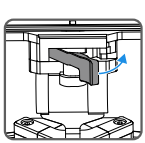


- Press the Battery Release Button before removing the battery.
- Press the Battery Level Button once to check the battery level.

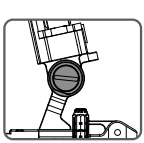
Mounting the Monitor to the Remote Controller



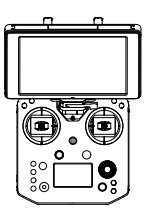
Ensure that Part B is unlocked. Connect Part B to Part A.



Lock the Mounting Bracket.



Use a coin to adjust the tightness of the tilt axis.



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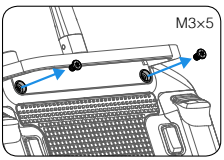
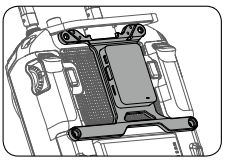
Mounting the Datalink Pro Air System to the Remote Controller

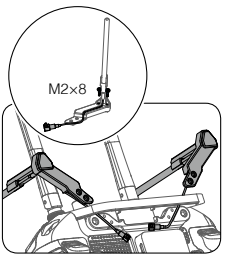
For the M200 series, only mount the Datalink Pro Air System to the M210 RTK remote controller.



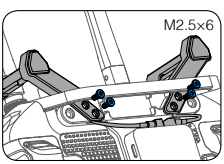
Remove the screws.



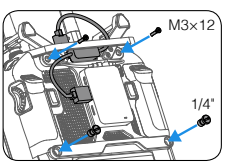
Affix the Datalink Pro Air System onto the mounting board with the double-sided adhesive, then attach the mounting board onto the back of the remote controller.



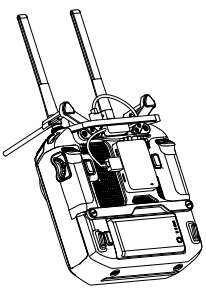
Thread the Datalink Pro antennas through the clips. Make sure that the lines of the antennas lie in the grooves of the mounting board where the clips attach to prevent the antennas from being damaged.



Attach the clips onto the mounting board, then connect the antennas to the Datalink Pro Air System.



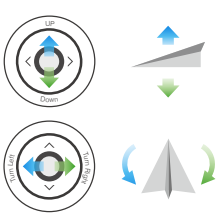
Affix the CAN Hub module to the mounting board with the double-sided adhesive, then secure the mounting board using screws.



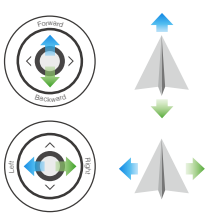
Using the Remote Controller

The Stick Mode is set to Mode 2 by default. In Mode 2, the left stick controls the aircraft's elevation and heading, and the right stick controls the aircraft's forward, backward, and lateral movements. To adjust the FPV camera, press and hold the C2 Button and rotate the left dial.

Left Stick



Right Stick



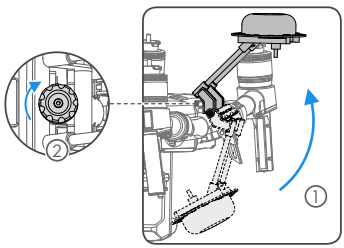
FPV Camera

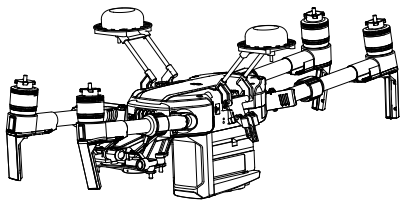
- For more information about how to connect and use the remote controller, please refer to the user manual.
- You can change the stick mode and customize the C1-C4 and BA-BH buttons' functions in the DJI GO 4 app.

4. Preparing the Aircraft

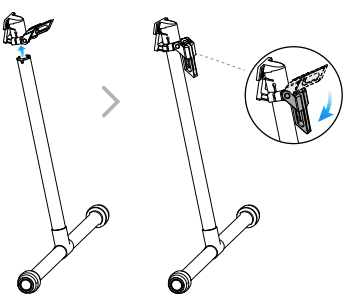
Unfolding the D-RTK Antennas

For the M200 series, only mount the D-RTK antennas to the M210 RTK.
Unfold the D-RTK antennas and tighten the screws.



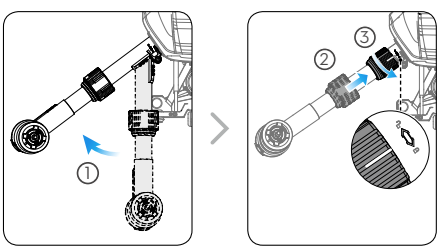


Installing the Landing Gears

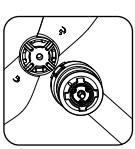


Unfolding the Aircraft

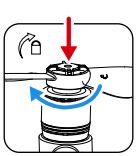
Unfold the frame arm, slide the arm lock to the end of the frame arm, then rotate it about 90° until the silver line lies within the range of the ⇔ icon.



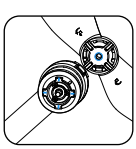
Mounting the Propellers



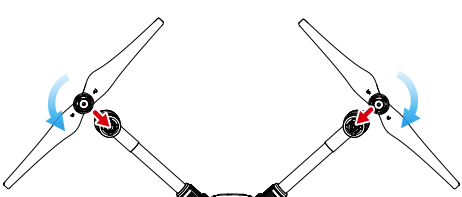
Propellers without silver rings should be installed on unmarked motors.



Press the propeller down onto the mounting plate and rotate it in the direction indicated by the lock icon until secure.

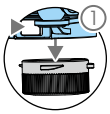


Propellers with silver rings should be installed on motors with the same color marks.



Check that the propellers are secure before each flight.

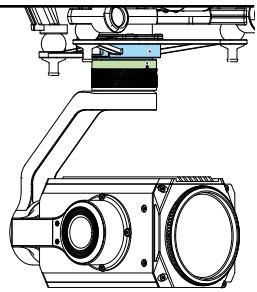
Mounting the Gimbal and Camera



Press the Gimbal Detachment button to remove the cover.

Align the white and red dots and insert the gimbal.

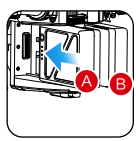
Rotate the gimbal lock to the locked position.

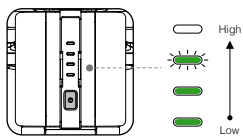


Make sure to press down the gimbal detachment button when rotating the gimbal lock to remove the gimbal and camera. The gimbal lock should be fully rotated when removing the gimbal for the next installation.

Mounting the Intelligent Flight Batteries

Insert a pair of batteries.
Press once to check the battery level.
Press again and hold until the batteries turn on or off.



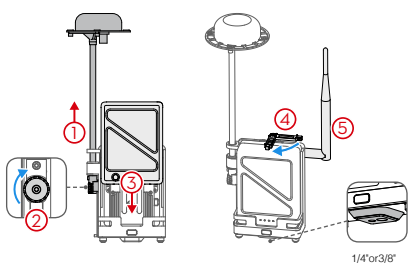


- Only use battery slot B when only using one battery to supply power.
- Make sure to press the Battery Removal button when removing the battery.

Mounting the D-RTK Ground System

For the M200 series, only mount the D-RTK Ground System to the M210 RTK.

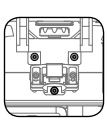
1. Rotate the screws to secure the antenna bracket, and install the battery.
2. Rotate the clamp to secure the battery, and install the Datalink Pro antenna.
3. Install the D-RTK Ground System onto an appropriate tripod.



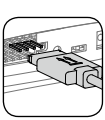
This manual uses the Datalink Pro 900 as an example. Please refer to the D-RTK and Datalink Pro user guides for more details.

Mounting the GPS Module (Optional)

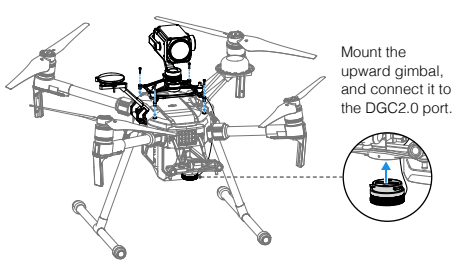
A GPS module is required when a single upward gimbal is in use.



Remove the D-RTK antenna on the left side (facing the aircraft nose) and mount the GPS module.



Connect the GPS module to the Extension Port, and ensure that the side with **the logo faces upward**.

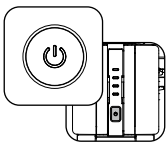


Mount the upward gimbal, and connect it to the DGC2.0 port.

- Make sure you secure the GPS module and upward gimbal's cables with the cable clamps for safety.
- The GPS module should be installed on the left side when facing the aircraft nose. Note that the whole aircraft will not retain its IP43 rating if the GPS module is installed.

5. Flight

Toggle the Flight Mode switch to P-mode, the safest flight mode.



Power on the remote controller, monitor, aircraft, and D-RTK Ground System.

Launch the DJI GO 4 app and tap GO FLY.

Ready to Go (GPS)

Before taking off, ensure that the Aircraft Status Bar in the DJI GO 4 app reads 'Ready to Go (GPS)' or 'Ready to Go (Vision)' if flying indoors.

Inside the DJI GO 4 App

Auto Takeoff

Auto Landing

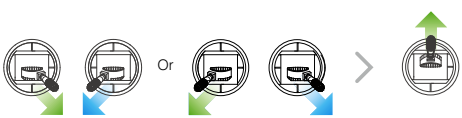
Return to Home (RTH)

Gimbal Working Modes

Intelligent Flight Modes

- These icons are for reference only. Icons in the DJI Pilot app may be different than icons in the DJI GO 4 app.
- Watch the tutorials in the DJI GO 4 app or on the official DJI website to learn more.
- Always set an appropriate RTH altitude before takeoff. Please refer to the Disclaimer and Safety Guidelines for more details.

Manual Takeoff



Use the Combination Stick Command to start/stop the motors.

Push the left stick up (slowly) to take off.

Manual Landing

Pull left stick down (slowly) until you touch the ground. Hold it for a few seconds to stop the motors.

Return-to-Home (RC)

Pressing the Return to Home button on the remote controller brings the aircraft back to the Home Point, just like the icon in DJI GO 4. Press and hold the button to initiate the RTH procedure. Press it again to cancel RTH.

- To stop the motors mid-flight, press the RTH button while simultaneously pulling the left stick to the bottom inner corner and hold for three seconds. Only stop the motors mid-flight in emergency situations when doing so may reduce risk of damage or injury.
- Rotating propellers can be dangerous. DO NOT start the motors in narrow spaces or when there are people nearby. Always keep your hands on the remote controller while the motors are spinning. After landing, power off the aircraft before turning off the remote controller.

It is important to understand basic flight guidelines for the safety of both you and those around you. Please refer to the Disclaimer and Safety Guidelines for more information.

No Fly Zones

Learn more:
http://flysafe.dji.com/no-fly

Specifications

Aircraft (M210/M210 RTK)	
Dimensions	M210: Unfolded, 887×880×378 mm, Folded, 716×220×236 mm M210 RTK: Unfolded, 887×880×408 mm, Folded, 716×242×236 mm
Weight	M210: Approx. 3.84 kg (with two standard batteries), Approx. 4.57 kg (with two optional batteries) M210 RTK: Approx. 4.27 kg (with two standard batteries), Approx. 5 kg (with two optional batteries)
Diagonal Wheelbase	643 mm
Max Takeoff Weight	6.14 kg
Max Payload	M210: 2.3 kg (with two standard batteries), 1.57 kg (with two optional batteries) M210 RTK: 1.87 kg (with two standard batteries), 1.14 kg (with two optional batteries)
Hovering Accuracy (P-mode with GPS)	Vertical: ±1.64 feet (0.5 m) or ±0.33 feet (0.1 m, Downward Vision System enabled) Horizontal: ±4.92 feet (1.5 m) or ±0.98 feet (0.3 m, Downward Vision System enabled)
Hovering Accuracy (D-RTK)	Vertical: ±0.33 feet (0.1 m); Horizontal: ±0.33 feet (0.1 m)
Max Angular Velocity	Pitch: 300°/s, Yaw: 150°/s
Max Pitch Angle	P-mode: 25° (Forward Vision System enabled: 25°); S-mode: 30°, A-mode: 25°
Max Ascent Speed	16.4 ft/s (5 m/s)
Max Descent Speed (vertical)	9.8 ft/s (3 m/s)
Max Speed	S-mode: 64.8 kph (40.3 mph); P-mode/A-mode: 57.6 kph (35.8 mph)
Max Service Ceiling Above Sea Level	9842 feet (3000 m, with 1760S propellers)
Max Wind Resistance	39.36 ft/s (12 m/s)
Max Flight Time (with standard batteries)	M210: 27 min (no payload), 13 min (takeoff weight: 6.14 kg) M210 RTK: 23 min (no payload), 13 min (takeoff weight: 6.14 kg)
Max Flight Time (with optional batteries)	M210: 38 (no payload), 24 min (takeoff weight: 6.14 kg) M210 RTK: 32 (no payload), 24 min (takeoff weight: 6.14 kg)
Supported DJI Gimbals	Zenmuse X4S/X5S/XT/Z30
Supported Gimbal Configurations	Single Downward Gimbal, Dual Downward Gimbals, Single Upward Gimbal
Ingress Protection Rating	IP43
GNSS	GPS+GLONASS
Operating Temperature	-4° to 113° F (-20° to 45° C)
Remote Controller	
Operating Frequency	2.400-2.483 GHz; 5.725-5.825 GHz
Max Transmitting Distance (unobstructed, free of interference)	2.4 GHz: 4.3 miles (7 km, FCC); 2.2 miles (3.5 km, CE); 2.5 miles (4 km, SRRC) 5.8 GHz: 4.3 miles (7 km, FCC); 1.2 miles (2 km, CE); 3.1 miles (5 km, SRRC)
EIRP	2.4 GHz: 26 dBm (FCC); 17 dBm (CE); 20 dBm (SRRC) 5.8 GHz: 28 dBm (FCC); 14 dBm (CE); 20 dBm (SRRC)
Power Supply	Extended Intelligent Battery (Model: WB37-4920mAh-7.6V)
Output Power	12 W (Without supplying power to monitor)
USB Power Supply	iOS: 1 A ⎓ 5.2 V (max); Android: 1.5 A ⎓ 5.2 V (max)
CrystalSky Monitor	DJI CrystalSky 7.85inch, Resolution: 2048×1536; Brightness: 1000 cd/m2; Operating System: Android 5.1; Storage: ROM 64GB
Operating Temperature	-4° to 104° F (-20° to 40° C)
Downward Vision System	
Velocity Range	<32.8 ft/s (10 m/s) at the height of 6.56 feet (2 m)
Altitude Range	<32.8 feet (10 m)
Operating Range	<32.8 feet (10 m)
Operating Environment	Surfaces with clear patterns and adequate lighting (>15 lux)
Ultrasonic Sensor Operating Range	0.33-16.4 feet (10-500 cm)
Ultrasonic Sensor Operating Environment	Non-absorbing material, rigid surfaces (thick indoor carpeting will adversely affect performance)
Forward Vision System	
Obstacle Sensing Range	2.3-98.4 feet (0.7-30 m)
FOV	Horizontal: 60°; Vertical: 54°
Operating Environment	Surfaces with clear patterns and adequate lighting (> 15 lux)
Upward Infrared Sensing System	
Obstacle Sensing Range	0-16.4 feet (0-5 m)
FOV	±5°
Operating Environment	Large, diffuse, and reflective obstacles (reflectivity >10%)
Intelligent Flight Battery (Standard, Model: TB50-4280mAh-22.8V (TB50-M200); Optional, Model: TB55-7660mAh-22.8V (TB55))	
Capacity	4280 mAh (standard), 7660 mAh (optional)
Voltage	22.8 V
Battery Type	LiPo 6S
Energy	97.58 Wh (standard), 176.93 Wh (optional)
Net Weight (Single One)	Approx. 520 g (standard), Approx. 885 g (optional)
Operating Temperature	-4° to 113° F (-20° to 45° C)
Charging Temperature	41° to 104° F (5° to 40° C)
Max Charging Power	180 W
Charger (Model: IN2C180)	
Voltage	26.1 V
Rated Power	180 W
Charging Hub (Model: IN2CH)	
Input Voltage	26.1 V
Input Current	6.9 A

Download the latest version from
http://www.dji.com/matrice-200-series

※ This content is subject to change without prior notice.

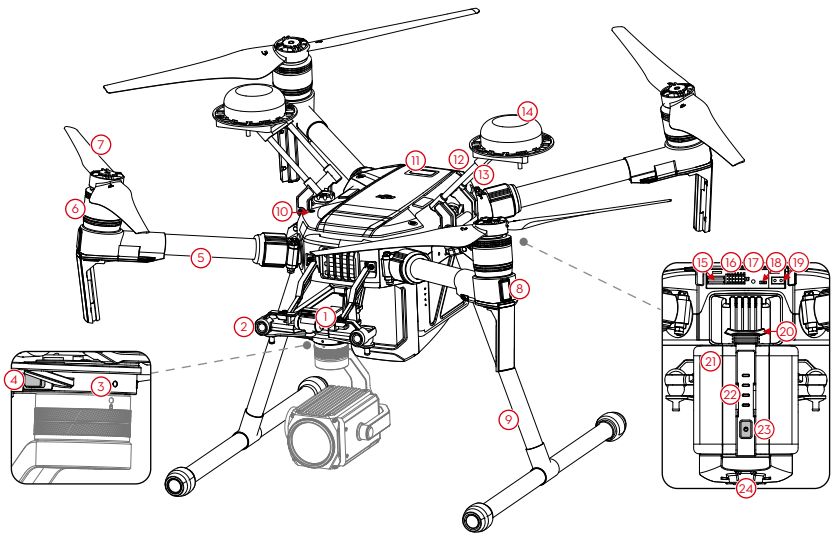
Designed by DJI. Printed in China.

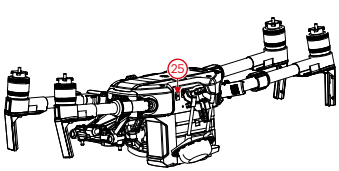
认识您的 Matrice 210/Matrice 210 RTK

MATRICE™ 210/Matrice 210 RTK（M210/M210 RTK）集成 DJI™ 先进的飞控系统、下视及前视视觉系统、红外感知系统和 FPV 摄像头，并具备障碍物感知功能和指点飞行、智能跟随等先进飞行功能。全新的机身设计，在飞行过程中 IP 防护等级可达 IP43（参照 IEC 60529 标准）。快拆式起落架和已预装至中心架的可折叠机臂方便收纳及运输，且有效缩短起飞前的准备时间。

可适配多款 DGC2.0 接口的云台相机 *，支持上置单云台和下置双云台，可满足不同领域的使用需求。配备多个扩展口，可满足不同扩展功能，其中，M210 RTK 标配 DJI D-RTK™，可实现高精度准确定位 *。双电池系统提升飞行安全系数，空载时，M210 使用标配电池（TB50-M200）飞行时间约 27 分钟，使用大容量电池（TB55）可达 38 分钟，M210 RTK 则分别为 23 和 32 分钟 *。

本文档以 M210 RTK 安装 DJI ZENMUSE™ Z30 云台相机进行示例。





折叠状态

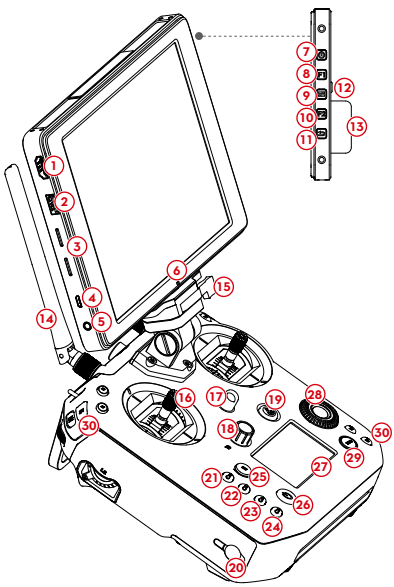
1. FPV 摄像头
2. 前视视觉系统
3. 云台接口（DGC2.0 接口）
4. 云台相机解锁按钮
5. 机 臂
6. 电 机
7. 螺旋桨
8. 电调 LED 指示灯
9. 起落架
10. 上置单云台安装位
11. 顶部红外感知系统
12. 飞行器状态指示灯
13. D-RTK 天线安装支架
14. D-RTK 天线 **
15. USB 接口
16. 扩展接口
17. 对频按键 / 对频指示灯
18. USB 模式切换开关
19. 对外电源接口（XT30）
20. 电池弹出按钮
21. 智能飞行电池
22. 电池电量指示灯
23. 电源按键
24. 下视视觉系统
25. Micro SD 卡槽

* 本手册所示例的云台相机需另行购买，请从 DJI 商城了解更多详细信息。使用上置单云台时，需安装外置 GPS 模块并连接到扩展接口上。不支持同时使用上置和下置云台。扩展接口、上置单云台和下置双云台的使用方法，详见用户手册。
最长飞行时间均为实验环境下（零海拔无风情况下）测得，仅供参考。
切勿拆开飞行器机壳，否则产品将不在保修范围内。
** 飞行器使用 M210 RTK 进行示例，M210 机身不带 D-RTK 天线，并且不包含 D-RTK 地面端和 Datalink Pro 天空端套件。

认识您的遥控器

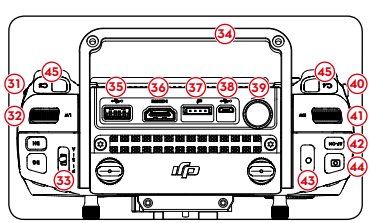
Cendence™ 遥控器使用 LIGHTBRIDGE™ 高清图传技术，配合完备的功能按键可在最大 7 千米 * 通信距离内完成飞行器与云台相机的各种操作和配置。配备 DJI CrystalSky™ 7.85inch 高亮显示屏，可直接通过内置的 DJI Pilot App 或 DJI GO™ 4 App 实时显示高清画面。图传系统拥有 5.8G 和 2.4G 两个通信频率 *，可以根据环境的干扰情况切换频率。遥控器通过无线信号可实现主从机功能，最大无线通信范围可达 100 米 *。

遥控器外置 WB37 智能电池，可通过遥控器接口（ 180W 充电器约 2 小时 24 分钟 ）或智能电池充电管家（ 约 1 小时 11 分钟 ）进行充电。只使用主机，且不向显示设备供电时最长可连续工作 4 小时 *。



1. HDMI 接口
2. USB 接口
3. Micro SD 卡槽
4. Micro USB 接口
5. 耳机插孔
6. 感光口
7. 电源按键
8. 自定义按键（ F1 ）
9. 设置按键
10. 自定义按键（ F2 ）
11. 返回按键
12. 电池移除按键
13. WB37 智能电池
14. 天 线
15. 显示屏安装支架
16. 摇 杆
17. 背带挂钩
18. 调焦旋钮
19. 智能返航按键
20. 充电接口
21. EV 值设置
22. 快门设置
23. 光圈设置
24. ISO 设置
25. 急停按键
26. 电源开关
27. 遥控器显示屏
28. 相机设置转盘
29. 自定义按键设置菜单
30. 自定义按键（ BA-BH ）

31. 左拨杆
32. 左拨轮（ 云台俯仰 ）
33. 飞行模式切换开关
34. 提 手
35. USB 接口（ 用于连接移动设备 ）
36. HDMI A 口（ 视频输出接口 ）
37. CAN Bus 扩展接口
38. Micro USB 接口
39. SDI 接口（ 视频输出接口 ）
40. 右拨杆
41. 右拨轮（ 云台平移 ）
42. 自动对焦按键
43. 录影按键
44. 拍照按键
45. 自定义按键（ C1-C4 ）



* 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。
部分国家不支持 5.8GHz 频段，以遵从当地法规。
上述最长可工作时间为仅向遥控器供电所测得，仅供参考。
遥控器主从机功能详细内容请参考用户手册。

使用您的 Matrice 210/Matrice 210 RTK

1. 下载 DJI Assistant 2

使用计算机在 DJI 官网下载并安装 DJI ASSISTANT™ 2 调参软件。
http://www.dji.com/matrice-200-series

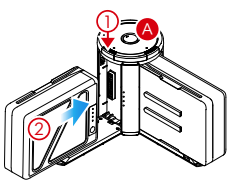
确保显示设备内置 DJI GO 4 App 或 DJI Pilot App 可正常使用。以下内容仅使用 DJI GO 4 App 进行示例。

Internet 全新的飞行器需使用 DJI GO 4 App 激活才能使用。激活时请确保设备可以接入互联网。

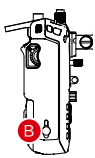
DJI Assistant 2 要求使用 Windows 7 及以上系统或 Mac OS X 10.11 及以上系统。

2. 充 电

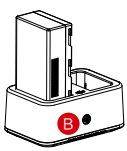
- 按下充电管家顶部按键，打开充电接口保护盖。
- 对准电池与充电管家的电池导轨，插入电池。
- 充电完成后，必须按住充电管家顶部按键，才能移除电池。



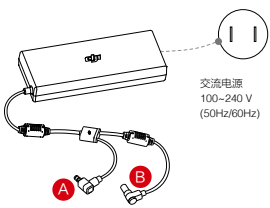
IN2CH 充电管家，完全充满两块 TB50-M200 智能飞行电池约需 1 小时 30 分钟 *



完全充满约需 2 小时 24 分钟 *



WCH2 充电管家，完全充满单个 WB37 智能电池约 1 小时 11 分钟 *



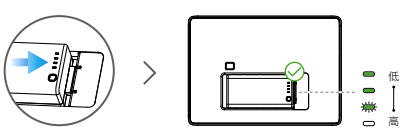
* 使用 DJI 标配充电器，首次使用请务必充满电。

- 切勿同时为 TB50-M200 智能飞行电池和 WB37 智能电池充电。
- 智能飞行电池电量指示灯全部熄灭且充电管家顶部的指示灯绿灯常亮表示电已充满。
- 遥控器显示屏电量为 100% 时表示本次充电已完成。
- 充电管家蜂鸣器开关可用于开启和关闭声音提示。默认开启，充电完成时会有声音提示。
- 安装智能飞行电池到飞行器并开启电源之后，一旦智能飞行电池温度低于 15℃，电池将开启自动加热功能，保持电池温度在 15-20℃之间。详细内容请参考用户手册。
- 推荐两块智能飞行电池保持同时充 / 放电使用，以获得最佳供电性能。推荐使用 DJI GO 4 App 配对功能，并对配对电池进行标记。

3. 准备遥控器

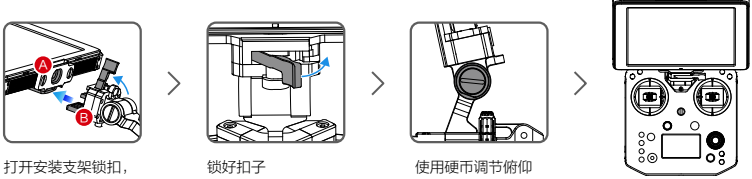
安装显示屏和遥控器电池

显示屏和遥控器电池安装方法一样。
安装 WB37 电池到电池插槽，推动直到听到“咔”一声。



- 按住电池移除按键，才能移出电池。
- 短按一次电量按键，可查看电池电量。

安装显示屏到遥控器



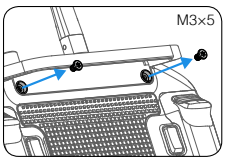
打开安装支架锁扣，安装到显示屏

锁好扣子

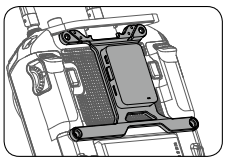
使用硬币调节俯仰角度松紧度

安装 Datalink Pro 天空端到遥控器

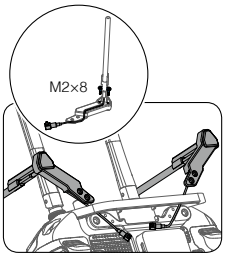
对于 M200 系列，只有 M210 RTK 需要安装 Datalink Pro 天线。



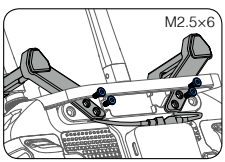
移除遥控器螺丝。



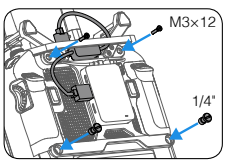
使用双面胶固定 Datalink Pro 天空端到挂载板，并安装挂载板到遥控器。



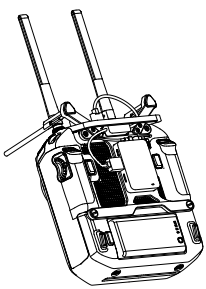
将天线穿入天线夹，注意安装时天线应位于槽内，切勿压到，否则容易损坏天线。



使用螺丝固定天线夹到挂载板上，最后连接天线到天空端。



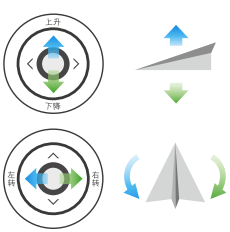
使用双面胶固定 CAN Hub 模块到挂载板上并连线，最后拧紧四颗螺丝固定挂载板。



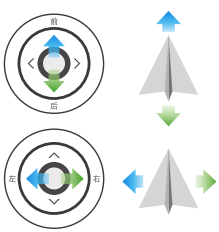
使用遥控器

遥控器出厂默认操控方式为“美国手”（左手油门）。左摇杆控制飞行高度与方向，右摇杆控制飞行器的前进、后退以及左右飞行方向。按住 C2 按键并拨动左拨轮可控制 FPV 摄像头的拍摄角度。

左摇杆



右摇杆



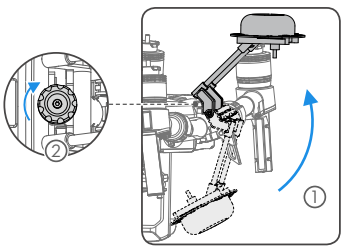
控制 FPV 摄像头

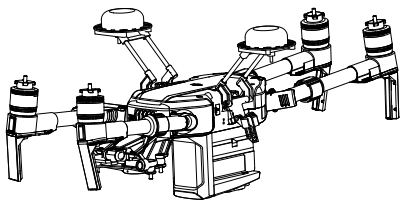
更多飞行操作详见用户手册；可以在 DJI GO 4 App 进行遥控器操控方式更改和 C1-C4、BA-BH 按键功能映射等操作。

4. 准备飞行器

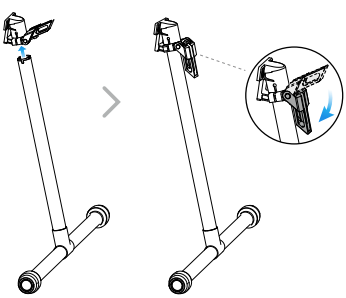
展开 D-RTK 天线

展开两侧安装支架，拧紧螺丝。



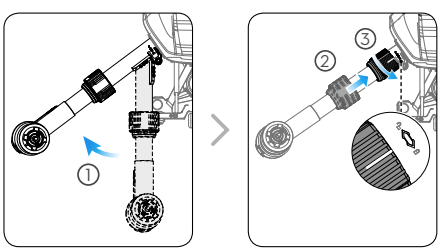


安装两侧起落架

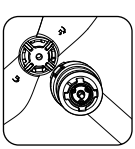


展开飞行器

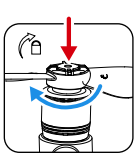
展开机臂，滑动锁扣到底并转动约 90°，使锁扣上的银线落到⇦⇨范围内。



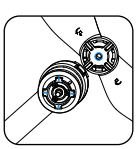
安装螺旋桨



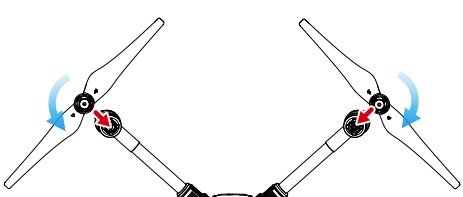
桨帽不带颜色的螺旋桨安装到没有标记的电机桨座上。



使桨帽嵌入电机桨座并按压到底，沿锁紧方向 旋转螺旋桨至无法继续旋转，松手后螺旋桨将弹起锁紧。



桨帽有银圈的螺旋桨安装到同色标记的电机桨座上。



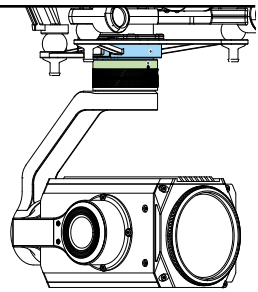
确保螺旋桨安装正确、紧固。

安装云台相机

按住云台相机解锁按钮，移除保护盖。

对齐云台相机上的白点与接口红点，并嵌入安装位置。

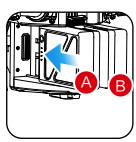
旋转云台相机快拆接口至锁定位置，以固定云台。

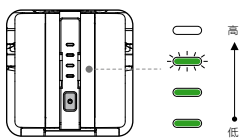


移除云台相机时，需要按住解锁按钮，才能旋转云台相机的快拆接口。为方便下次安装，请在移除云台时，务必将接口旋转到位才取下云台。

安装智能飞行电池

装入两块电池。
检查电量：短按一次电源按键。
开启 / 关闭：短按一次，在 3 秒内长按可开启 / 关闭电池。

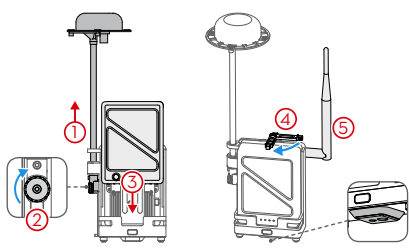




- 如果需要使用单个电池供电，则电池必须插在 B 槽。
- 需要按下电池弹出按钮，才能移除电池。

安装 D-RTK 地面端

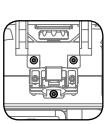
对于 M200 系列，只有 M210 RTK 需要安装 D-RTK 地面端。
1. 移动 D-RTK 地面端天线支架并拧紧螺丝，然后安装电池。
2. 旋转卡扣固定电池，然后安装 Datalink Pro 天线。
3. 根据螺纹规格（1/4" 或 3/8"）固定到合适的三角架上。



本手册以 Datalink Pro 900 为示例进行安装。D-RTK 和 Datalink Pro 功能的详细内容，请参考相应的使用说明。

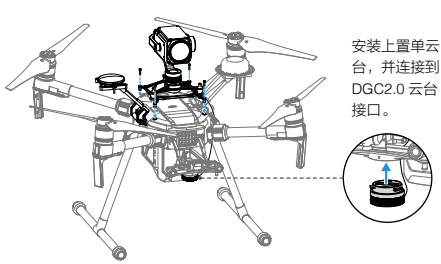
安装外置 GPS 模块（可选）

使用上置单云台时，需安装外置 GPS 模块。



面向机头，移除左侧 D-RTK 天线，安装外置 GPS 模块。

连接外置 GPS 模块到扩展接口，**注意接头有标记的一侧朝上**。

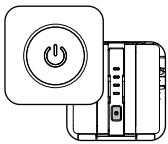


安装上置单云台，并连接到 DGC2.0 云台接口。

- 务必使用线扣固定 GPS 模块和云台的连接线到飞行器机身。
- 外置 GPS 模块必须安装在飞行器左侧（面向机头）。使用外置 GPS 模块时，飞行器不再达到 IP43 防护等级。

5. 起飞 / 降落

飞行模式切换开关调到 P 档位



开启遥控器、显示屏、飞行器和 D-RTK 地面端电源

启动 DJI GO 4 App 并进入开始飞行

起飞准备完毕（GPS）

起飞前请务必等待 DJI GO 4 App 相机界面中的飞行状态指示栏显示为“起飞准备完毕（GPS）”或“起飞准备完毕（Vision）”，以保障飞行安全。

DJI GO 4 App 相机界面

自动起飞

自动降落

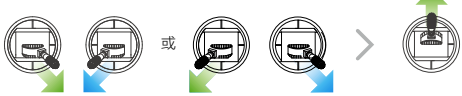
自动返航

云台工作模式

更多智能飞行模式

- DJI GO 4 App 相机界面图标仅用于示例，DJI Pilot App 显示可能与 DJI GO 4 不同，请以实际显示为准。
- 请在 DJI GO 4 App 或 DJI 官方网站观看教学视频以正确使用指点飞行与智能跟随等功能。
- 请预先在 DJI GO 4 App 设置合适的自动返航高度以安全返航。飞行安全注意事项详见《免责声明和安全操作指引》。

手动起飞



掰杆动作：电机启动 / 停止启动电机

缓慢向上推动油门杆飞行器起飞

手动降落

缓慢向下拉动油门杆，直至飞行器降落。
保持油门杆处在最低位置 2 秒，电机停止。

自动返航（遥控器）

功能与 DJI GO 4 App 中的自动返航按键相同。
长按遥控器的智能返航按键可使飞行器自动返航。
再短按一次该按键可终止返航。

- 空中停止电机方式：向内拨动左摇杆的同时按下返航按键。空中停止电机将会导致飞行器坠毁，仅用于发生特殊情况（如飞行器可能撞向人群）时需要紧急停止电机以最大程度减少伤害。
- 高速旋转的螺旋桨具有危险性，操作者应与飞行器保持安全距离并使飞行器远离人群、建筑物、树木或其它遮挡物，以避免发生撞击。
- 飞行器电机未停止前务必保持遥控器在手并确保飞行器完全在控制之中。
- 降落电机停止后请先关闭飞行器，再关闭遥控器。

飞行安全认识对于您、周围人群与环境的安全非常重要。

请务必仔细阅读《免责声明和安全操作指引》。

禁飞区

详情请访问以下网址：
http://flysafe.dji.com/no-fly

技术规格

- **飞行器（M210/M210 RTK）**

尺寸	M210：887×880×378 mm（展开），716×220×236 mm（折叠） M210 RTK：887×880×408 mm（展开），716×242×236 mm（折叠）
重量	M210：约 3.84 kg（含两块标配电池），约 4.57 kg（含两块选配电池） M210 RTK：约 4.27 kg（含两块标配电池），约 5 kg（含两块选配电池）
对称电机轴距	643 mm
最大起飞重量	6.14 kg
最大载重	M210：2.3 kg（标配电池），1.57 kg（选配电池）；M210 RTK：1.87 kg（标配电池），1.14 kg（选配电池）
悬停精度（P-GPS）	垂直：±0.5 m（下视视觉系统启用：±0.1 m）；水平：±1.5 m（下视视觉系统启用：±0.3 m）
悬停精度（D-RTK）	垂直：±0.1 m；水平：±0.1 m
最大旋转角速度	俯仰轴：300° /s，航向轴：150° /s
最大俯仰角度	P 模式：25° （P 模式且前视视觉系统启用：25° ）；S 模式：30° ；A 模式：25°
最大上升 / 下降速度	5 m/s，3 m/s
最大水平飞行速度	S 模式：64.8 kph；P 模式 /A 模式：57.6 kph
最大飞行海拔高度	3000 m（使用 1760S 螺旋桨）
最大可承受风速	12 m/s
最大飞行时间（标配电池）	M210：27 分钟（空载）；13 分钟（起飞重量 6.14 kg） M210 RTK：23 分钟（空载）；13 分钟（起飞重量 6.14 kg）
最大飞行时间（选配电池）	M210：38 分钟（空载）；24 分钟（起飞重量 6.14 kg） M210 RTK：32 分钟（空载）；24 分钟（起飞重量 6.14 kg）
适配 DJI 云台	Zenmuse X4S/X5S/XT/Z30
支持云台安装方式	下置单云台，下置双云台，上置单云台
IP 防护等级	IP43
GNSS	GPS+GLONASS
工作环境温度	-20℃至 45℃

- **遥控器（型号：GL800A）**

工作频率	2.400-2.483 GHz；5.725-5.825 GHz
最大信号有效距离（无干扰、无遮挡）	2.4 GHz：7 km（FCC）；3.5 km（CE）；4 km（SRRC） 5.8 GHz：7 km（FCC）；2 km（CE）；5 km（SRRC）
发射功率 (EIRP)	2.4 GHz：26 dBm（FCC）；17 dBm（CE）；20 dBm（SRRC） 5.8 GHz：28 dBm（FCC）；14 dBm（CE）；20 dBm（SRRC）
供电方式	外置智能电池（型号 WB37-4920mAh-7.6V）
功耗	12 W（不向显示设备供电）
USB 接口供电电流 / 电压	iOS：1 A＝5.2 V（最大）；Android：1.5 A＝5.2 V（最大）
CrystalSky 显示屏	7.85 英寸屏幕，分辨率 2048×1536，亮度 1000 cd/m2；Android 5.1 系统，存储空间 ROM 64GB
工作环境温度	-20℃ 至 40℃

- **下视视觉系统**

飞行速度测量范围	<10 m/s（高度 2 m，光照充足）
高度测量范围	<10 m
精确悬停范围	<10 m
使用环境	表面有丰富纹理，光照条件充足（>15 lux，室内日光灯正常照射环境）
超声波高度测量范围	10-500 cm
超声波使用环境	非吸音材质、硬质地面（厚地毯性能会有衰减）

- **前视视觉系统**

障碍物感知范围	0.7-30 m
FOV	水平 60° ，垂直 54°
使用环境	表面有丰富纹理，光照条件充足（>15 lux，室内日光灯正常照射环境）

- **顶部红外感知系统**

障碍物感知范围	0-5 m
FOV	±5°
使用环境	漫反射，大尺寸，高反射率（反射率 >10%）障碍物

- **智能飞行电池［标配型号：TB50-4280mAh-22.8V (TB50-M200)，选配型号：TB55-7660mAh-22.8V (TB55)］**

容量	4280 mAh（标配），7660 mAh（选配）
电压	22.8 V
电池类型	LiPo 6S
能量	97.58 Wh（标配），176.93 Wh（选配）
电池整体重量	约 520 g（标配），约 885 g（选配）
工作环境温度	-20℃ 至 45℃
充电环境温度	5℃ 至 40℃
最大充电功率	180 W

- **充电器（型号：IN2C180）**

电压	26.1 V
额定功率	180 W

- **充电管家（型号：IN2CH）**

输入电压	26.1 V
输入电流	6.9 A

了解产品全部信息，请访问官网产品专页下载《用户手册》
http://www.dji.com/matrice-200-series

※ 内容如有更新，恕不另行通知。

Designed by DJI. Printed in China.

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