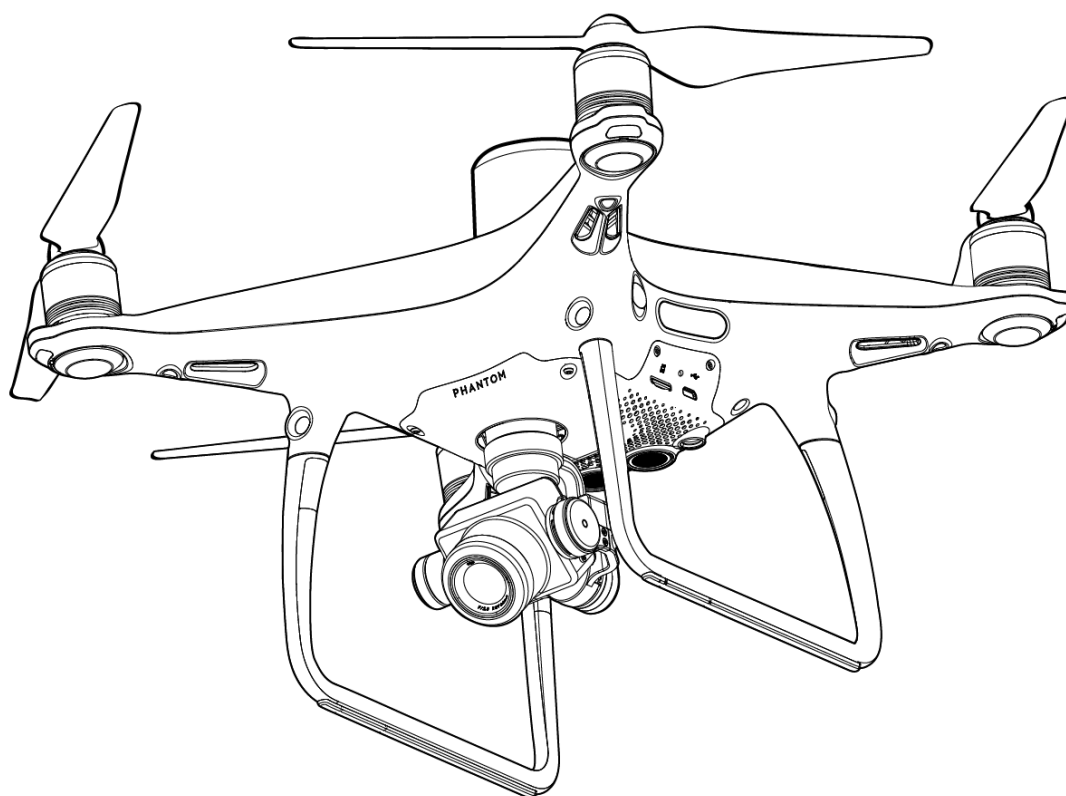


Phantom 4 RTK

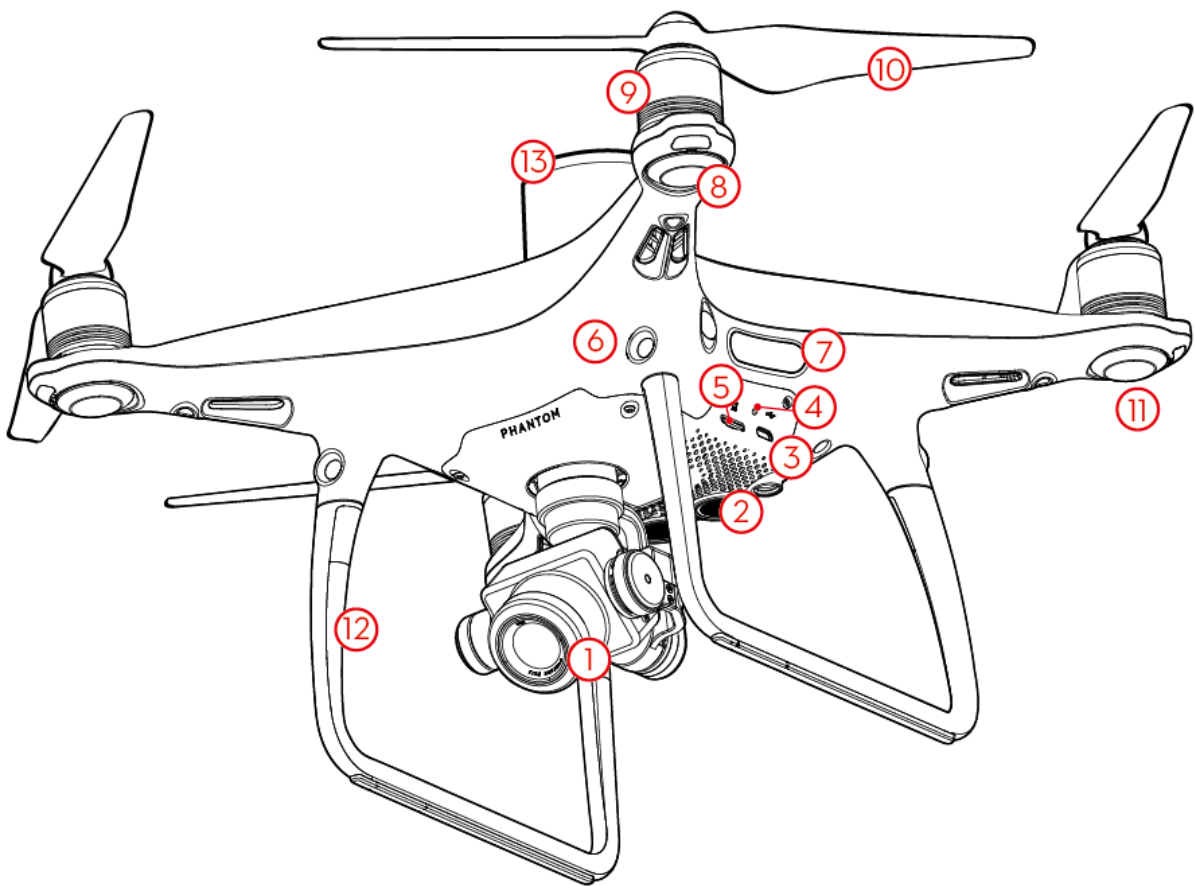
Quick Start Guide

V1.0

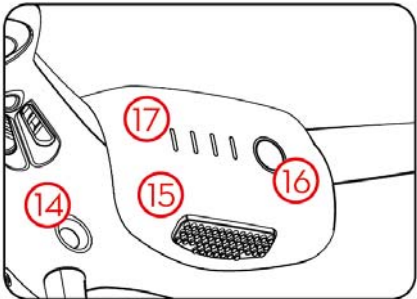


Phantom 4 RTK

PHANTOM™ 4 RTK is equipped with 4 directions of obstacle avoidance allowing it to intelligently avoid obstacles during flight. Return-to-Home function and stable hover and flight indoors are also available. The aircraft has a built-in DJI™ Onboard D-RTK*, which provides high-precision data for centimeter-level positioning to realize more accurate mapping operation. The camera uses a 1-inch CMOS sensor offering unprecedented clarity, lower noise, and better quality images to enhance aerial imaging for mapping. The maps generated through the mapping image data can be used for field planning of the Agras MG-1S Advanced or MG-1P series.



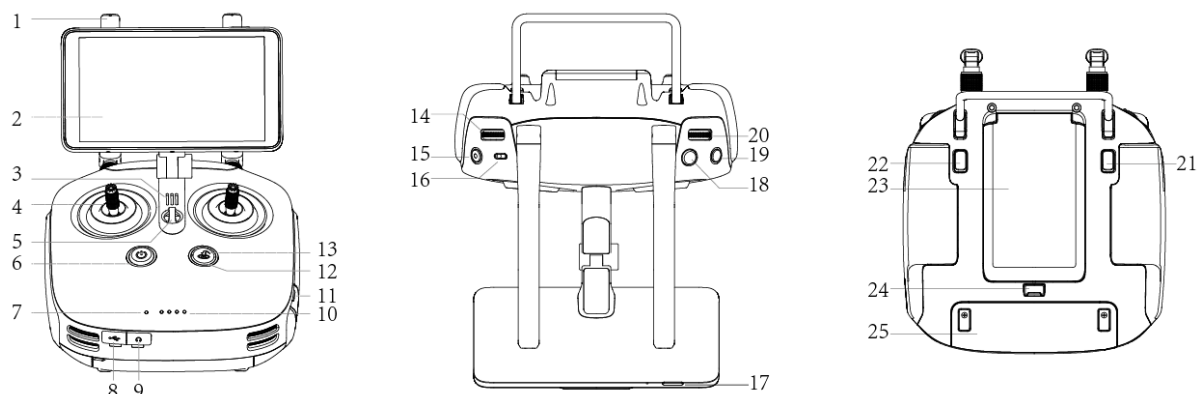
1. Gimbal and Camera	9. Motors
2. Downward Vision System	10. Propellers
3. Micro USB Port	11. Aircraft Status Indicators
4. Camera/Linking Status Indicator and Link Button	12. Antennas
5. Camera Micro SD Card Slot	13. Onboard D-RTK Antenna
6. Forward Vision System	14. Rear Vision System
7. Infrared Sensing System	15. Intelligent Flight Battery
8. Front LEDs	16. Power Button
	17. Battery Level Indicators



* This should be used with a DJI Base Station (purchased additionally) or DJI approved Network RTK service.

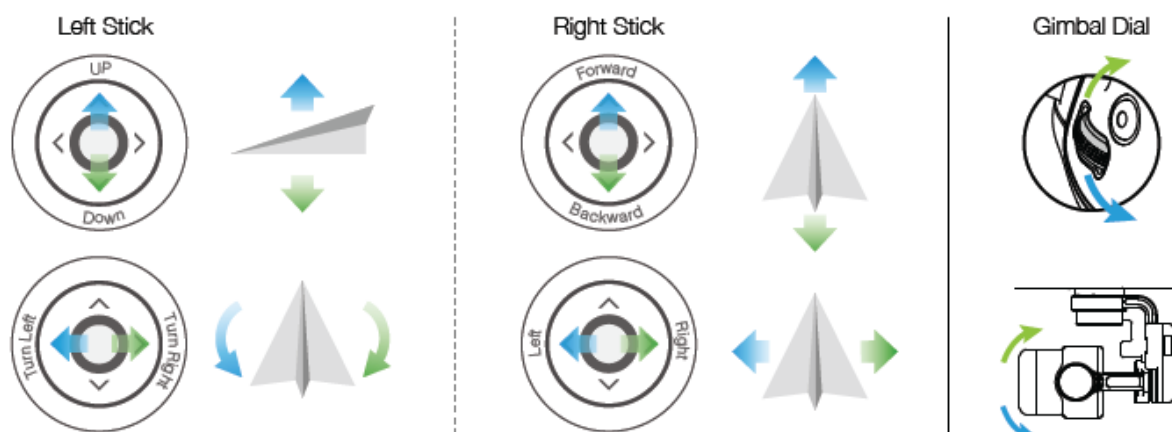
Remote Controller

The powerful remote controller of the Phantom 4 RTK has a transmission range extending up to 4.3 mi (7 km)*. It features physical buttons and dials to control camera tilt, photo capture and video recording. Built into the remote controller is DJIOCUSYNC™, providing a live HD view from the Phantom camera directly on the display. Dual frequency support makes the HD video downlink more stable. Replaceable batteries and antennas of the remote controller make it easy for daily operation and maintenance.



- | | | |
|----------------------|-----------------------|-----------------------------------|
| 1 Antennas | 10 Battery Level LEDs | 19 Pause Button |
| 2 Display Device | 11 Micro SD Card Slot | 20 Camera Settings Dial |
| 3 Speaker | 12 RTH Status LED | 21 C1 Button (customizable) |
| 4 Control Sticks | 13 RTH Button | 22 C2 Button (customizable) |
| 5 Lanyard Attachment | 14 Gimbal Dial | 23 Battery Compartment Cover |
| 6 Power Button | 15 Record Button | 24 Battery Compartment Cover Lock |
| 7 Status LED | 16 Flight Mode Switch | 25 Remote Controller Back Cover |
| 8 USB-C Port | 17 Sleep/Wake Button | |
| 9 3.5 mm Audio Port | 18 Shutter Button | |

The default flight control is known as Mode 2. The left stick controls the aircraft's altitude and heading, while the right stick controls its forward, backward, left and right movements. The gimbal dial controls the camera's tilt.



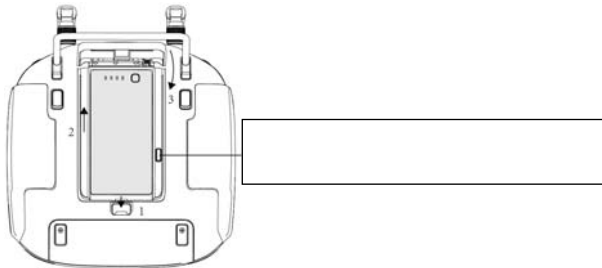
*The remote controller is able to reach its maximum transmission distance (FCC) in a wide open area with no Electro-Magnetic Interference, and at an altitude of about 400 feet (120 meters).

Using Phantom 4 RTK

1. Mount the Remote Controller Battery

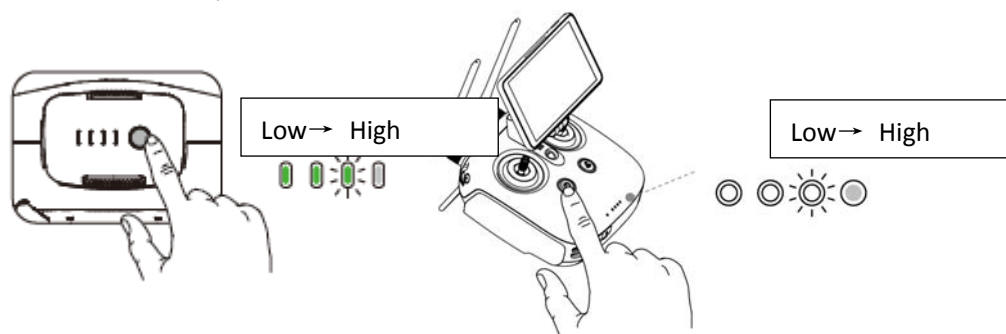
An external changeable Intelligent Battery is used for the remote controller, which is convenient for long-term operation.

Slide the Battery Compartment Cover Lock on back of the remote controller. Then mount the Intelligent Battery into the compartment and push it to the top position. Finally, close the cover.



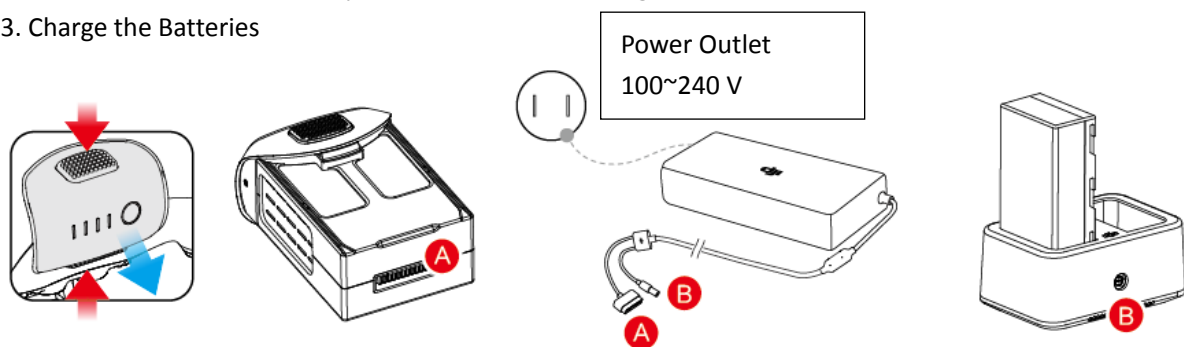
Press and hold the Battery Release Button and push the battery down to remove it from the compartment.

2. Check the Battery Levels



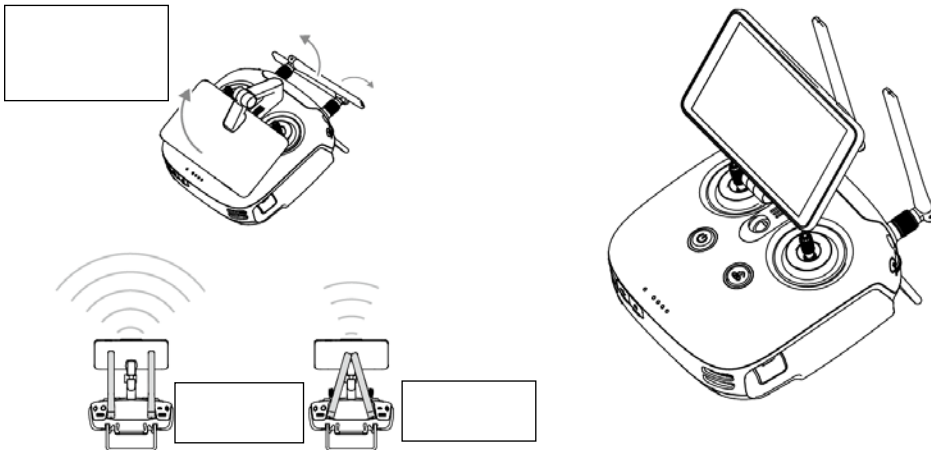
Press once to check the battery level. Press once, then again and hold to turn on/off.

3. Charge the Batteries

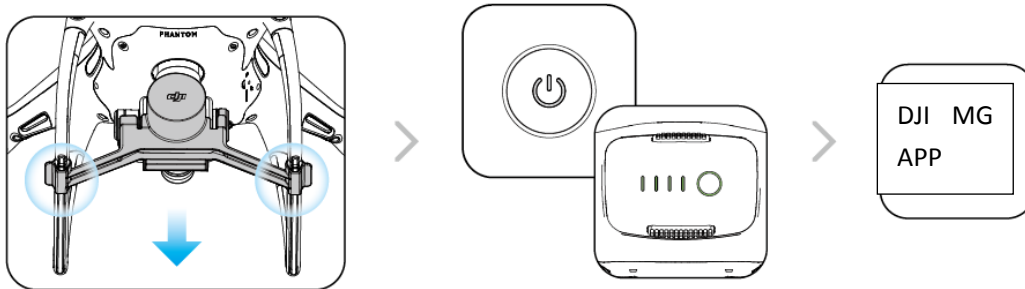


● Make sure to fully charge the batteries in first-time use.

4. Prepare the Remote Controller



5. Prepare for Take off



Remove the gimbal clamp from the camera.

Power on the remote controller and the

Launch DJI MG, complete the first-time setup, and enter Operation View.



Black propeller rings go on motors with black dots.

Silver propeller rings go on motors without black dots.

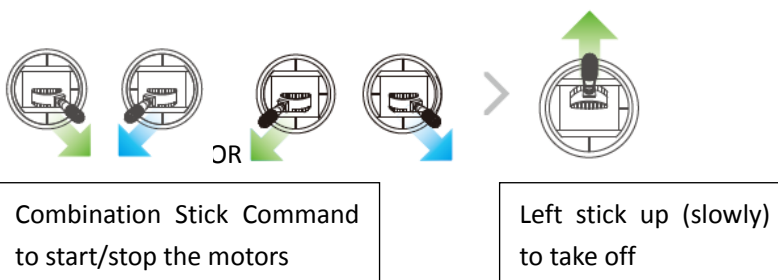
Press the propeller down onto the mounting plate and rotate in the lock direction  until secure.

● Check that the propellers are secure before each flight.

6. Flight

Before taking off, make sure the Aircraft Status Bar in the DJI MG app indicates 'Ready to Go (GPS)'.

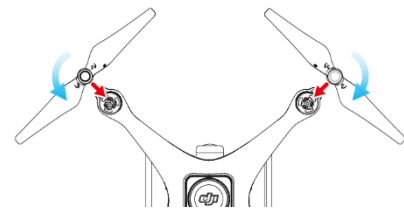
Takeoff



Combination Stick Command to start/stop the motors

Left stick up (slowly) to take off

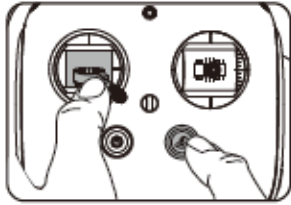
Landing





Left stick down (slowly) until you touch the ground
Hold a few seconds to stop the motors

Stop motor mid-flight



- Rotating propellers can be dangerous. Do not start the motors when there are people nearby.
- Always keep your hands on the remote controller so long as the motor is still spinning.
- Stop motor mid-flight: Pull the left stick to the bottom inside corner while simultaneously pressing the RTH button. Only stop motors mid-flight in emergency situations when doing so can reduce the risk of damage or injury.

7. Mapping

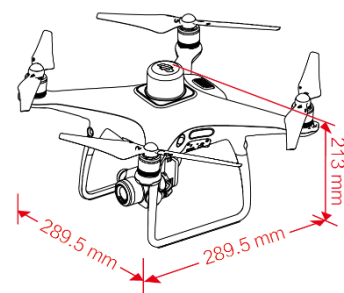
Plan the mapping area in the DJI MG app, and then resume the task to generate a map with more accurate positioning. Users can finish field planning on the new map and share the planning to the remote controller of the Agras MG -1S Advanced or MG-1P series to achieve more accurate and efficient route planning.

- DJI MG App Main Interface > Field Plan > Plan with P4 RTK > Start.
- Tap the screen at the boundary point of the area that requires mapping to add a waypoint.
- Tap and hold the screen to mark an obstacle.
- Add calibration point: Walk to the location of the calibration point. Tap Add Calibration Point onscreen.
- Parameter settings: Set Flying Speed, Altitude, Front Overlap Ratio, Side Overlap Ratio.
- Save and name the task.
- Go to DJI MG Main Interface > Resume Task > Task List on the left > Mapping to choose and resume a mapping task.
- Rectify position.
- Slide to start the task.
- The app will generate a map after the task is completed. Users can choose the map in Field tag of the Task List.
- Add waypoints and obstacle information on the generated map for field plan. The planning data will be saved in the current field task.
- Share the field task to DJI Agriculture Service app. Then the related users can download it from the remote controller of the Agras MG-1S Advanced or MG-1P series to generate route quickly and perform a route task.

Specifications

● Aircraft

Weight (Battery & Propellers Included)	1388 g
Max Service Ceiling Above Sea Level	6000 m
Max Flight Time	Approx. 30 minutes



Operating Temperature	32° to 104° F (0° to 40° C)
● Gimbal	
Controllable	-90° to +30°
● Vision System	
Velocity Range	≤31 mph (50 kph) at 6.6 ft (2 m) above ground
Altitude Range	0 - 33 ft (0 - 10 m)
Operating Range	0 - 33 ft (0 - 10 m)
Obstacle Sensory Range	2 - 98 ft (0.7 - 30 m)
Operating Environment	Surfaces with clear patterns and adequate lighting (> 15 lux)
● Infrared Sensing System	
Obstacle Sensory Range	0.6 - 23 ft (0.2 - 7 m)
Operating Environment	Surface with diffuse reflection material, and reflectivity > 8% (such as wall, trees, humans, etc.)
● Camera	
Sensor	1" CMOS; Effective pixels: 20M
Lens	FOV (Field of View) 84°, 24 mm (35 mm format equivalent) f/2.8 - f/11. auto focus at 1 m - ∞
ISO Range	100 - 3200 (Auto)
Max Image Size	16:9 Aspect Ratio: 5472×3078
Supported File Systems	FAT32 (≤ 32 GB); exFAT (> 32 GB)
Supported SD Cards	Micro SD, Max Capacity: 128 GB. Class 10 or UHS-1 rating required
Operating Temperature	32° to 104° F (0° to 40° C)
● Remote Controller	
Operating Temperature	32° to 104° F (0° to 40° C)
Operating Voltage	1.2 A @ 7.4 V
Built-in Display Device	Android system, 5.5 inch screen, 1920×1080, 1000 cd/m ² , 4G RAM + 16G ROM
● Remote Controller Intelligent Battery (WB37-4920mAh-7.6V)	
Battery Type	LiPo battery
Capacity	4920 mAh
Voltage	7.6 V
Energy	37.39 Wh
Charging Temperature	5° to 40°C (41° to 104°F)
● Intelligent Flight Battery (PH4-5870mAh-15.2V)	

Capacity	5870 mAh
Voltage	15.2 V
Battery Type	LiPo 4S
Energy	89.2 Wh
Net Weight	468 g
Charging Temperature Range	14° to 104° F (-10° to 40° C)
Max Charging Power	100 W
● Charging Hub(WCH2)	
Input Voltage	17.3 - 26.2 V
Output Voltage and Current	8.7 V, 6 A; 5 V, 2 A
Operating Temperature	5° to 40°C (41° to 104°F)
● AC Power Adapter (A14-057N1A)	
Voltage	17.4 V
Rated Power	100 W

Compliance Information

FCC Compliance Notice

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

RF Exposure Information

For aircraft, it complies with FCC radiation exposure limits set forth for an uncontrolled environment. In

order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20cm during normal operation.

For Remote Controller, SAR tests are conducted using standard operating positions accepted by the FCC with the remote controller transmitting at its highest certified power level in all tested frequency bands, although the SAR is determined at the highest certified power level, the actual SAR level of the remote controller while operating can be well below the maximum value.

Before a new model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the exposure limit established by the FCC. Tests for each model are performed in positions and locations as required by the FCC.

For body worn operation, this mobile phone has been tested and meets the FCC RF exposure guidelines when used with an accessory designated for this product or when used with an accessory that contains no metal and that positions the handset a minimum of 10 mm from the body.

KCC Warning Message

“해당무선설비는운용중전파혼신가능성이있으므로인명안전과관련된서비스는할수없습니다.”

“해당무선설비는운용중전파혼신가능성이있음”

EU Compliance Statement: SZ DJI TECHNOLOGY CO., LTD hereby declares that this device is in compliance with the essential requirements and other relevant provisions of the Directive 2014/53/EU. A copy of the EU Declaration of Conformity is available online at www.dji.com/euro-compliance

EU contact address: DJI GmbH, Industriestrasse. 12, 97618, Niederlauer, Germany

Declaración de cumplimiento UE: SZ DJI TECHNOLOGY CO., LTD por la presente declara que este dispositivo cumple los requisitos básicos y el resto de provisiones relevantes de la Directiva 2014/53/EU. Hay disponible online una copia de la Declaración de conformidad UE en www.dji.com/euro-compliance

Dirección de contacto de la UE: DJI GmbH, Industriestrasse. 12, 97618, Niederlauer, Germany

EU-verklaring van overeenstemming: SZ DJI TECHNOLOGY CO., LTD verklaart hierbij dat dit apparaat voldoet aan de essentiële vereisten en andere relevante bepalingen van Richtlijn 2014/53/EU. De EU-verklaring van overeenstemming is online beschikbaar op www.dji.com/euro-compliance

Contactadres EU: DJI GmbH, Industriestrasse. 12, 97618, Niederlauer, Germany

Declaração de conformidade da UE: A SZ DJI TECHNOLOGY CO., LTD declara, através deste documento, que este dispositivo está em conformidade com os requisitos essenciais e outras disposições relevantes da Diretiva 2014/53/EU.

Existe uma cópia da Declaração de conformidade da UE disponível online em www.dji.com/euro-compliance

Endereço de contacto na UE: DJI GmbH, Industriestrasse. 12, 97618, Niederlauer, Germany

Dichiarazione di conformità UE: SZ DJI TECHNOLOGY CO., LTD, dichiara che il presente dispositivo è conforme ai requisiti essenziali e alle altre disposizioni rilevanti della direttiva 2014/53/EU.

Una copia della dichiarazione di conformità UE è disponibile online all'indirizzo Web www.dji.com/euro-compliance



Indirizzo di contatto UE: DJI GmbH, Industriestrasse. 12, 97618, Niederlauer, Germany

Déclaration de conformité UE : Par la présente, SZ DJI TECHNOLOGY CO., LTD déclare que cet appareil est conforme aux principales exigences et autres clauses pertinentes de la directive européenne 2014/53/EU.

Une copie de la déclaration de conformité UE est disponible sur le site www.dji.com/euro-compliance

Adresse de contact pour l'UE : DJI GmbH, Industriestrasse. 12, 97618, Niederlauer, Germany

EU-Compliance: Hiermit erklärt SZ DJI TECHNOLOGY CO., LTD, dass dieses Gerät den wesentlichen Anforderungen und anderen einschlägigen Bestimmungen der EU-Richtlinie 2014/53/EU entspricht. Eine Kopie der EU-Konformitätserklärung finden Sie online auf www.dji.com/euro-compliance.

Kontaktadresse innerhalb der EU: DJI GmbH, Industriestrasse. 12, 97618, Niederlauer, Germany



CAUTION: RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS

Environmentally friendly disposal



Old electrical appliances must not be disposed of together with the residual waste, but have to be disposed of separately. The disposal at the communal collecting point via private persons is for free. The owner of old appliances is responsible to bring the appliances to these collecting points or to similar collection points. With this little personal effort, you contribute to recycle valuable raw materials and the treatment of toxic substances.