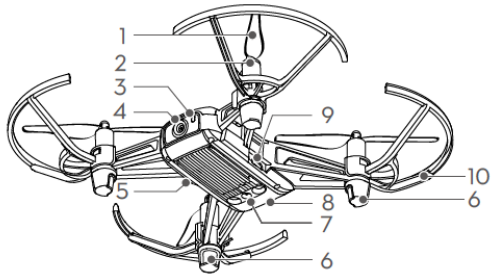
1. Introduction

EN

TELLO™ is a small quadcopter that features a Vision Positioning System and an onboard camera. Using its Vision Positioning System and advanced flight controller, it can hover in place and is suitable for flying indoors. Advanced features like Bounce mode, 8D Flips, and EZ Shots make using Tello fun. Tello captures 5 megapixel photos and streams 720p live video to the Tello app on a mobile device. Its maximum flight time is approximately 13 minutes*.



1. Propellers
2. Motors
3. Aircraft Status Indicator
4. Camera
5. Power Button
6. Antennas
7. Vision Positioning System
8. Flight Battery
9. Micro USB Port
10. Propeller Guards

* Maximum flight time was tested in windless conditions flying at a consistent 9 mph (15 kph). This value should be taken for reference only.

2. Downloading the Tello App and Watching Tutorial Videos

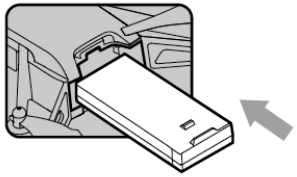
EN

Search for “Tello” on the App Store or Google Play or scan the QR code to download the app on your mobile device. To ensure flight safety, watch the tutorial videos on the official Ryze Tech website (http://www.ryzerobotics.com) before your first flight.

Operating system compatibility: iOS v9.0 or later; Android v4.4 or later.

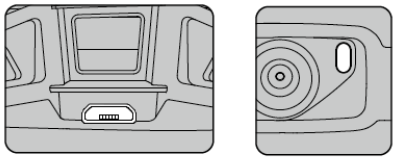
3. Charging the Battery

Insert the Flight Battery into the aircraft as shown.



To charge the Flight Battery connect the Micro USB port on the aircraft to a USB adapter (not provided) using a standard Micro USB cable.

Charging time: Approx. 1 hour and 30 minutes.



- - - Blinking blue slowly: charging.

— Solid blue: fully charged.

- Always use an FCC/CE (depending on location) certified USB adapter that is rated at 5 V and 1.5 A or above.
- Ensure the aircraft is powered off before charging. It cannot be charged when it is turned on.

4. Preparing for Takeoff

EN





Press the power button once to turn the aircraft on. (Press again to turn off)

Enable Wi-Fi on your mobile device and connect to the Tello-XXXXXX network.

Launch the Tello app. Connection has been established when the Aircraft Status Indicator blinks yellow slowly and the live camera view is shown on your mobile device.

5. Flight

In the Tello app:

- Auto Takeoff and Auto Landing



Auto Takeoff



Auto Landing

- Taking Photos and Recording Videos

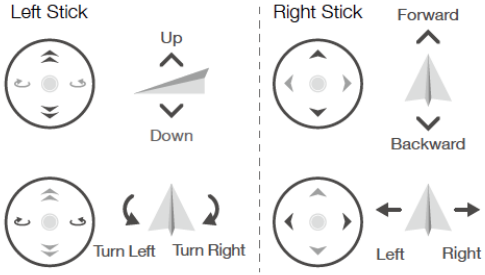


Tap to switch between Photo mode and Video mode.



Tap to take a photo or record video.

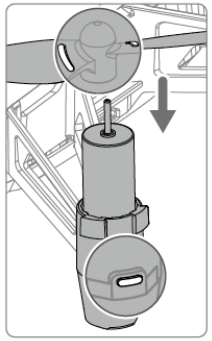
- Use the Virtual Joysticks in the app to control the aircraft (the default control stick mode is known as Mode 2)



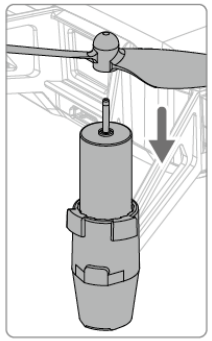
Installation Notes

1. Installing the Propellers

When mounting, ensure that the gap between the bottom of the propeller cap and the motor is no bigger than needed to insert the propeller removal tool.



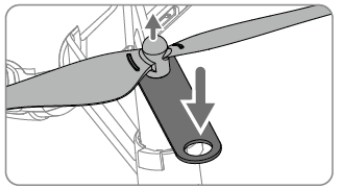
Mount **marked propellers** on the motors with **marked landing gear**.



Mount **unmarked propellers** on the motors with **unmarked landing gear**.

2. Detaching the Propellers

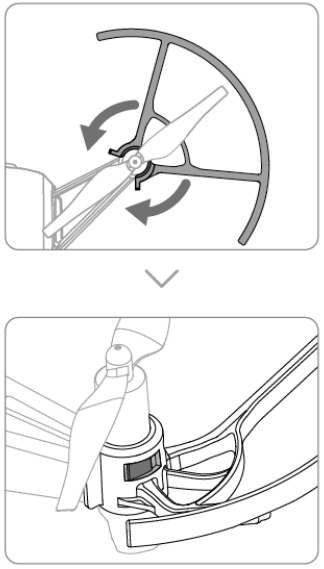
Insert the propeller removal tool between the propeller cap and the motor. Be sure to hold the motor while detaching the propeller.



⚠ Always detach the propellers using the propeller removal tool. DO NOT remove the propellers by hand, or you may be seriously hurt, and may damage the motors.

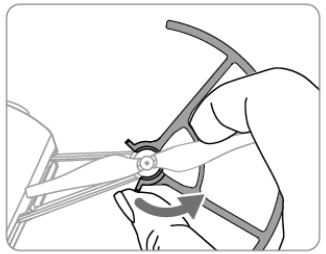
3. Installing the Propeller Guards

Push each propeller guard inwards to wrap it around the landing gear. Make sure it clicks into position and that the protruding parts of the landing gear securely fit into the notches on the propeller guards.



4. Detaching the Propeller Guards

To remove a propeller guard place your finger and thumb as shown in the figure below. With your thumb, gently apply a twisting force to the lip that protrudes from the propeller guard where it wraps around the landing gear.



⚠ DO NOT use excessive force when removing propeller guards as doing so may damage the aircraft's arms and you may get hurt.

Specifications

EN

- **Aircraft (Model: TLW004)**

Weight (Propeller Guards Included)	87 g
Max Speed	17.8 mph (28.8 kph)
Max Flight Time	13 minutes (0 wind at a consistent 9 mph (15 kph))
Operating Temperature	32° to 104° F (0° to 40° C)
Operating Frequency	2.4 to 2.4835 GHz
Transmitter (EIRP)	< 20 dBm (FCC) < 19 dBm (CE) < 19 dBm (SRRC)

- **Camera**

Max Image Size	2592×1936
Video Recording Modes	HD: 1280×720 30p
Video Format	MP4

- **Flight Battery**

Capacity	1100 mAh
Voltage	3.8 V
Battery Type	LiPo
Energy	4.18 Wh
Net Weight	25±2 g
Charging Temperature Range	41° to 113° F (5° to 45° C)
Max Charging Power	10 W

For more information, read the User Manual:
www.ryzerobotics.com

This content is subject to change without prior notice.

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Disclaimer

This product is NOT a toy and is not suitable for children under the age of 14 (15 in Japan). Adults should keep the aircraft out of the reach of children and exercise caution when operating this aircraft in the presence of children.

This product incorporates various advanced control technologies. However, inappropriate use of the product could result in personal injury or property damage. Please read the materials associated with the product before your first use of the product. These documents are included in the product package and/or are available online on the SZ RYZE TECHNOLOGY CO., LTD ("Ryze Tech") website (http://www.ryzerobotics.com).

This product is a flying camera that offers easy flight when in good working order as set forth below. Visit http://www.ryzerobotics.com for the most current instructions and warnings. Users operating their aircraft in the United States should visit http://knowbeforeyoufly.org for more information about flight safety and compliance.

The information in this document affects your safety and your legal rights and responsibilities. Read this entire document carefully to ensure proper configuration before use. Failure to read and follow the instructions and warnings in this document may result in serious injury to yourself or others, damage to or loss of your Ryze Tech product, or damage to other objects in the vicinity.

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SOME JURISDICTIONS MAY PROHIBIT A DISCLAIMER OF WARRANTIES AND YOU MAY HAVE OTHER RIGHTS THAT VARY FROM JURISDICTION TO JURISDICTION.

Ryze Tech accepts no liability for damage, injury or any legal responsibility incurred directly or indirectly from the use of this product. The user shall observe safe and lawful practices including, but not limited to, those set forth in these Safety Guidelines. You shall be solely responsible for all your behaviors when flying Tello.

Warnings

1. Stay away from rotating propellers and motors.
2. DO NOT touch the underside of the aircraft as it may be hot.
3. Never use non-Ryze Tech batteries and DO NOT short-circuit the Flight Battery.
4. Important information is included on the product package and in the documentation included in the product package. Read all of this information carefully and retain the product package and documentation for future reference.

Regulations

To avoid serious injury and property damage, observe the following rules:

1. DO NOT operate in the vicinity of manned aircraft, regardless of altitude. (Land immediately if necessary.)
2. DO NOT fly the aircraft in or at densely populated areas including cities, sporting events, exhibitions, and performances.
3. DO NOT fly the aircraft above the relevant maximum altitude set forth in your local laws and regulations.
4. Remain well clear of and DO NOT interfere with manned aircraft operations. Be aware of and avoid other aircraft and obstacles at all times.
5. DO NOT fly the aircraft near or inside no fly zones specified by local laws and regulations. The no fly zone list includes: airports, borders between two sovereign countries or regions, and major cities/regions, and is continuously updated. DO NOT fly around sensitive infrastructure or property such as power stations, water treatment facilities, correctional facilities, heavily traveled roadways, government facilities, or military zones.
6. Maintain visual line of sight with your aircraft at all times and use an observer to assist if needed.
7. NEVER use the aircraft to carry illegal or dangerous goods/payloads.
8. Make sure you understand the nature/type of your flight operation (such as for recreation, for public use, or for commercial use) and have obtained corresponding approval and clearance from the related government agencies before flight. Consult with your local regulators for comprehensive definitions and specific requirements. Users operating their aircraft in the United States should first visit http://www.knowbeforeyoufly.org and take the most appropriate action for their circumstances.
9. Please note that remote-controlled aircraft may be banned from conducting commercial activities in certain territories and regions. Check and follow all local laws and regulations before flying as those rules may differ from those stated here.
10. Respect the privacy of others when using the camera. Make sure you comply with local privacy laws, regulations, and moral standards. DO NOT conduct surveillance operations such as image capture or video recording on any person, entity, event, performance, exhibition, or property without authorization or where there is an expectation of privacy, even if the image or video is captured for personal use.
11. Please be advised that in certain areas, the recording of images and videos from events, performances, exhibitions, or commercial properties by means of a camera may contravene copyright or other legal rights, even if the image or video is shot for personal use.

Altitude Limit

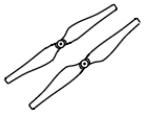
1. Fly NO higher than 33 ft (10 m) above ground level and stay away from any surrounding obstacles.

In the Box

Aircraft ×1
(Propellers and Propeller Guards included*)



Spare Propeller ×2 (pair)



Flight Battery ×1



Propeller Removal Tool ×1



Quick Start Guide × 1



* The diagrams in this document are for reference only and may differ from the actual product.