Our tello Drone

Prof. Venki Muthukumar, Ph.D.

Tello EDU/Robomaster TT

Tello Drone

Tello Robomaster TT

Aircraft
(Propellers included)
× 1
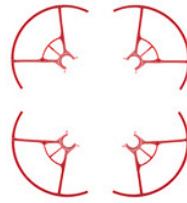
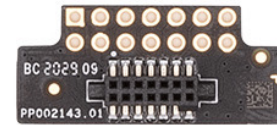RoboMaster TT
Propeller Guards
× 1

Spare Propeller
(pair)
× 2

Dot-Matrix Display &
Distance Sensing Module
× 1

Open-Source
Controller
× 1

Extension Board
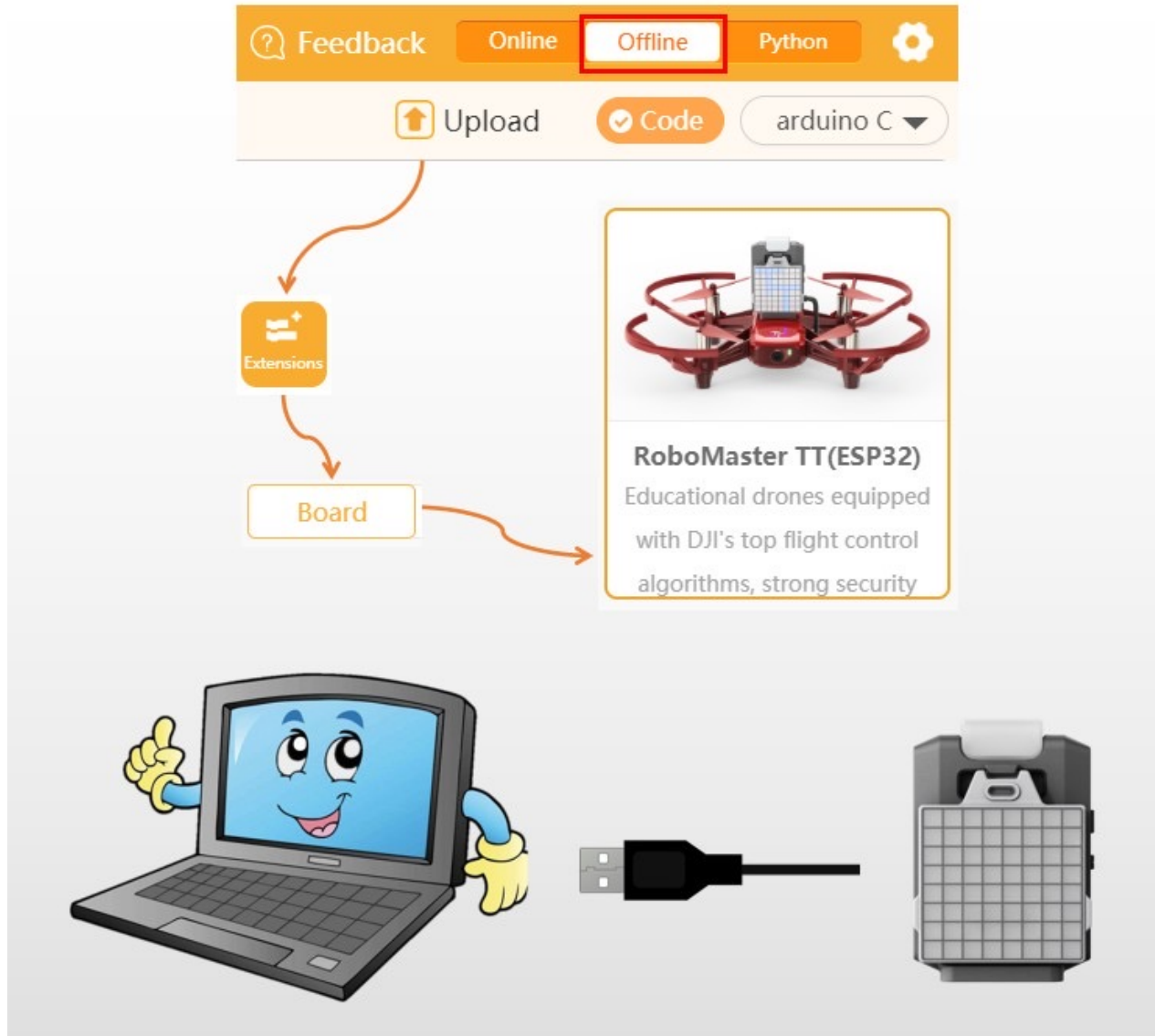× 1

Mission Pad
× 4

Flight Battery
× 1

Micro USB Cable
× 1

Tello Robomaster TT

- *Open-source RoboMaster SDK (software development kit) based on Python 3.0*
  - *supports graphical programming, Arduino, MicroPython, DroneBlocks, and other programming methods*
- *Controller with built-in ESP32 chip mounts to the drone*
  - *supports AP (Access Point) and Stations Modes*
- *14-pin (2x7) extension board lets you connect, debug, and supply power to third party sensors for additional drone applications*
  - *supports I2C, UART, SPI, GPIO, and PWM sensor interfaces*
- *Station Mode lets you connect multiple RoboMaster TTs to the same Wi-Fi router and control them*
- *LED indicator can be programmed to change color and flashing frequency*
- *8x8 programmable dot-matrix screen connects to open-source controller*
  - *adjustable overall and single-LED brightness*
  - *infrared ToF (time-of-flight) sensor accurately determines distances up to 3.9 feet*
- *Built-in barometer*

Tello Robomaster TT – ESP32

Tello Robomaster TT – ESP32

Tello EDU/Robomaster TT Python

The drone

Motor 4
black and blue long wire

front

Motor 1
black and white long wire

TELLO

Motor 3
black and white short wire

tail

Motor 2
black and blue short wire

Motor 4 — CW

Motor 3 — CCW

Motor 2 — CW

Motor 1 — CCW
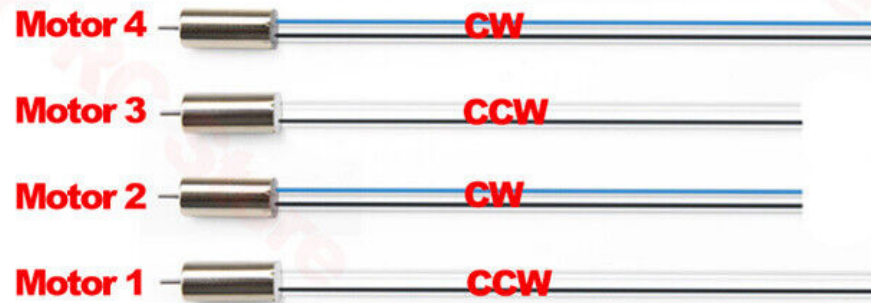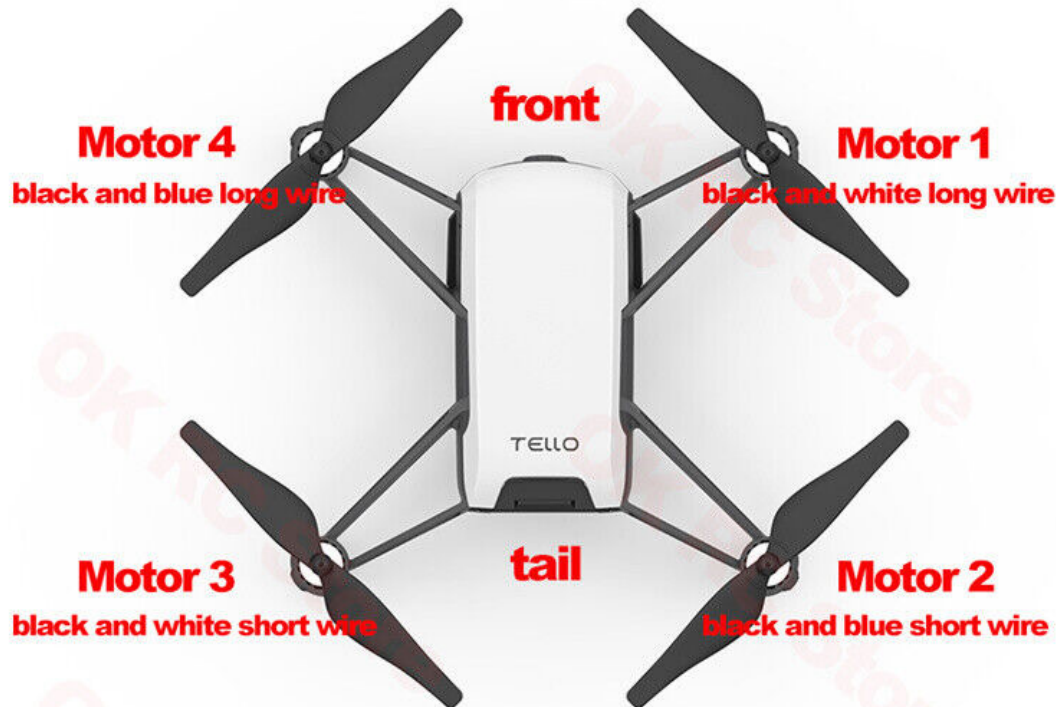
The motor

Specification
—

Item Brand: RCGEEK
Item Name: Tello Motor
Net weight: 10.78g/0.024lb
Gross weight: 19.08g/0.042lb
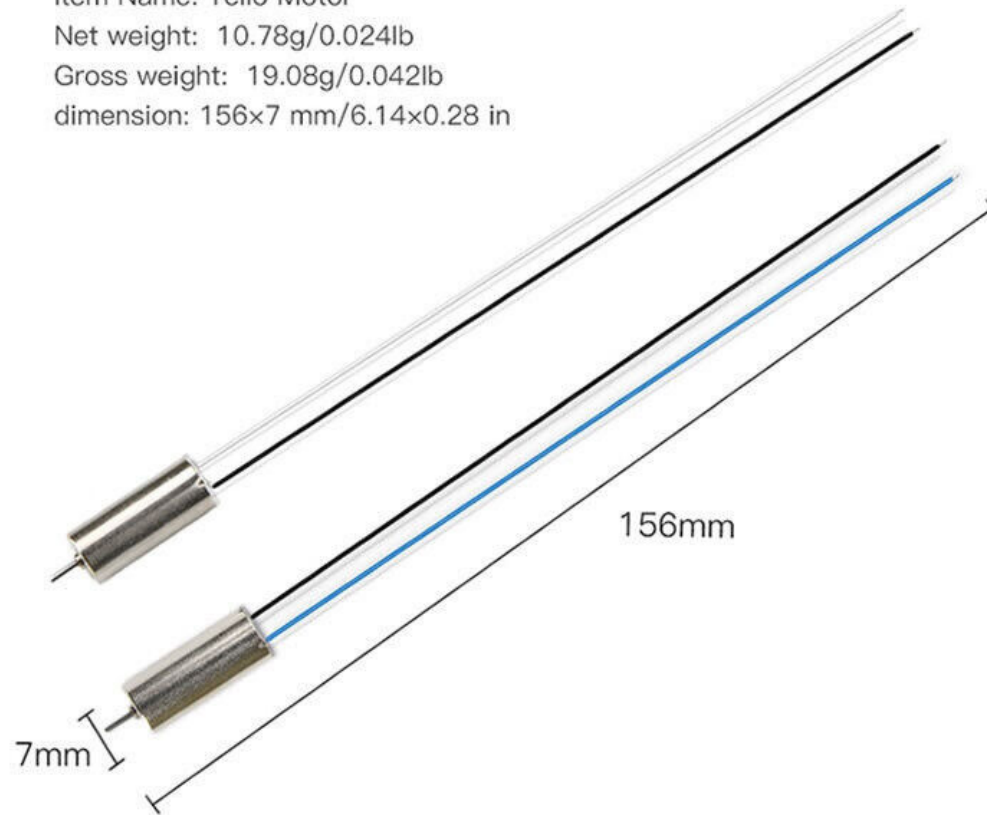dimension: 156×7 mm/6.14×0.28 in

156mm

7mm

Motor interconnections

(Blue-black forward rotation) (White and black reverse)

(White and black reverse) (Blue-black forward rotation)

(Blue-black forward rotation)

(White and black reverse)
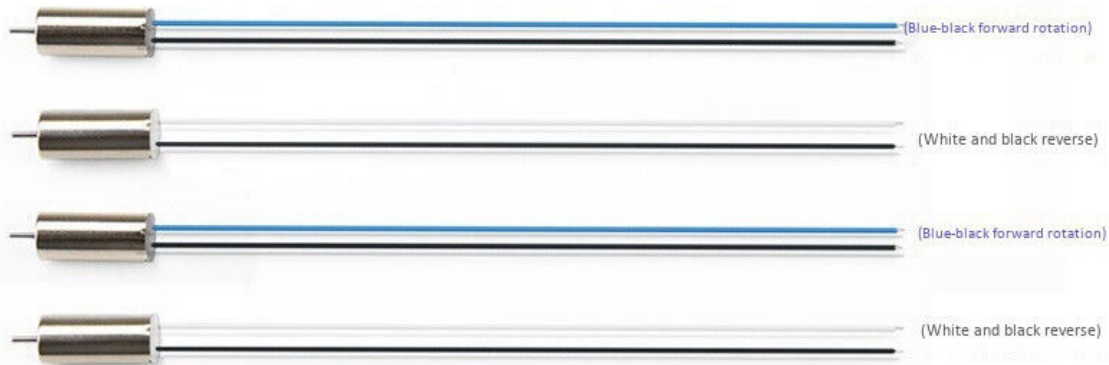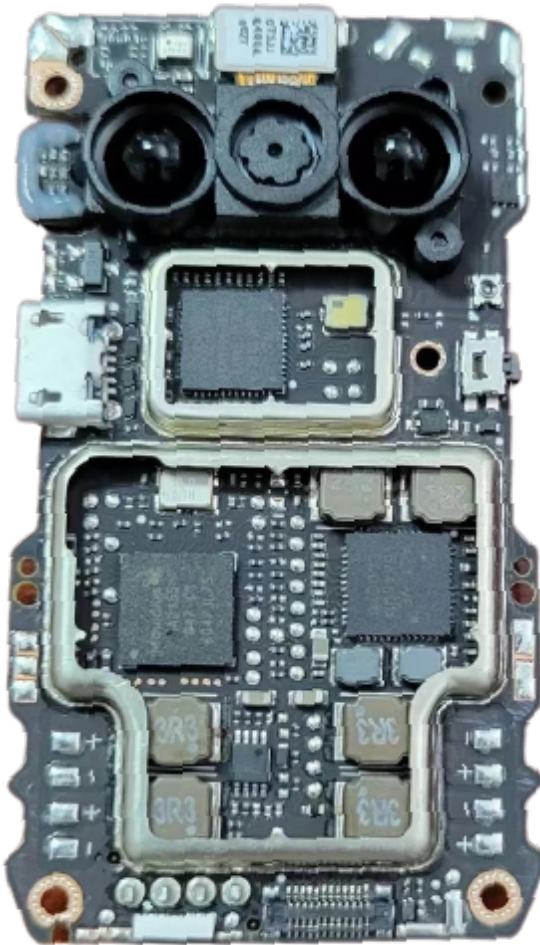
(Blue-black forward rotation)

(White and black reverse)

Inside the DJI Tello/Robomaster TT

RoboMaster TT App

Tello App

Tello App can experience more flight modes of Tello, with real-time image-transmission interface and camera,video-recording functions, which can easily experience the fun of aerial-photography. Tello app can also set the parameters of the drone, upgrade the firmware and calibrate the drone. Therefore, the Tello app is an essential software for using the Tello.

Download on the App Store

Download for Android

Requires iOS 9.0 or later.

Android version 4.4.0 or later.

View Supported Devices

View Supported Devices

Tello EDU APP

TELLO EDU App adds building block mode, formation mode and remote control mode to control the drone. The control method of the remote control mode is similar to that of the TELLO App, but the function is simpler; the building block mode allows you to use the building block programming to control the drone, which is convenient for easy learning programming anytime, anywhere. Increase the fun of the TELLO, and there are also many interesting levels to experience.

Download on the App Store

Download for Android

Requires iOS 9.0 or later.

Android version 4.4.0 or later.

View Supported Devices

View Supported Devices

iOS and Android app stores.

- iOS: DroneBlocks for iOS
- Android: DroneBlocks for Android

Documents

Manuals

RoboMaster TT - User Manual v1.0	2021-05-18	PDF ⬇
RoboMaster TT Quick Start Guide v1.0	2021-05-18	PDF ⬇
RoboMaster TT Safety Guidelines and Disclaimer v1.0	2021-05-18	PDF ⬇
RoboMaster TT Instructions for challenge card and flight map	2021-05-18	PDF ⬇
RoboMaster TT SDK 3. 0 User Manual	2021-05-18	PDF ⬇

- https://dl.djicdn.com/downloads/RoboMaster+TT/RoboMaster_TT_Tello_Talent_User_Manual_en.pdf

- https://dl.djicdn.com/downloads/RoboMaster%20TT/RoboMaster_TT_Tello_Talent_Quick_Start_Guide.pdf

- https://dl.djicdn.com/downloads/RoboMaster+TT/RoboMaster_TT_Mission_Pad_and_Flight_Map_User_Guide_en.pdf

- https://dl.djicdn.com/downloads/RoboMaster+TT/Tello_SDK_3.0_User_Guide_en.pdf

Python SDK