



# Specs

## Aircraft

- **Dimensions**  
(unfolded, excl. propellers)
  - 470×585×215 mm (L×W×H)
- **Dimensions (folded)**
  - 365×215×195 mm (L×W×H)
- **Diagonal Wheelbase**
  - 668 mm
- **Weight (incl. two batteries)**
  - 3770 ± 10 g
- **Max Takeoff Weight**
  - 3998 g
- **Operation Frequency<sup>[1]</sup>**
  - 2.4000-2.4835 GHz; 5.725-5.850 GHz
- **Transmitter Power (EIRP)**
  - 2.4 GHz: <33 dBm (FCC); <20 dBm (CE/SRRC/MIC)
  - 5.8 GHz: <33 dBm (FCC/SRRC); <14 dBm (CE)

- **Hovering Accuracy**

**(windless or breezy)**

- Vertical:  $\pm 0.1$  m (Vision System enabled);  $\pm 0.5$  m (N-mode with GPS);  $\pm 0.1$  m (RTK)

Horizontal:  $\pm 0.3$  m (Vision System enabled);  $\pm 1.5$  m (N-mode with GPS);

$\pm 0.1$  m (RTK)

- **RTK Positioning Accuracy**

**(fixed RTK enabled)**

- 1 cm+1 ppm (horizontal)

1.5 cm+1 ppm (vertical)

- **Max Angular Velocity**

- Pitch:  $150^\circ/\text{sec.}$ ; Yaw:  $100^\circ/\text{sec.}$

- **Max Tilt Angle**

- $35^\circ$  (N-mode and Forward Vision System enabled:  $25^\circ$ )

- **Max Ascent/Descent Speed**

- 6 m/s, 5 m/s

- **Max Tilt Descent Speed**

- 7 m/s

- **Max Horizontal Speed**

- 23 m/s

- **Max Service Ceiling Above Sea Level (without other payload)**

- 5,000 m (with 1671 propellers)

7,000 m (with 1676 propellers)

- **Max Wind Resistance**

- 15 m/s

12 m/s during taking off and landing

- **Max Hover Time [2]**

- 36 min

- **Max Flight Time[2]**

- 41 min

- **Motor Model**

- 3511

- **Propeller Model**

- 1671

1676 High Altitude (not included)

- **Ingress Protection Rating[3]**

- IP55

- **GNSS**

- GPS+Galileo+BeiDou+GLONASS

(GLONASS is supported only when RTK module is enabled)

- **Operating Temperature**

- -20° to 50° C (-4° to 122° F)

## Gimbal

- **Angular Vibration Range**

- $\pm 0.01^\circ$

- **Controllable Range**

- Pan:  $\pm 90^\circ$

Tilt:  $-120^\circ$  to  $+45^\circ$

- **Mechanical Range**

- Pan:  $\pm 105^\circ$

Tilt:  $-135^\circ$  to  $+60^\circ$

Roll:  $\pm 45^\circ$

## Zoom Camera

- **Sensor**

- 1/2" CMOS, Effective pixels: 48M

- **Lens**

- Focal length: 21-75 mm (equivalent: 113-405 mm)

Aperture: f/2.8-f/4.2

Focus: 5 m to  $\infty$

- **Exposure Compensation**

- $\pm 3$  ev (using 1/3 ev as step length)

- **Electronic Shutter Speed**

- Auto Mode:

Photo: 1/8000-1/2 s

Video: 1/8000-1/30 s

M Mode:

Photo: 1/8000-8 s

Video: 1/8000 -1/30 s

- **ISO Range**

- 100-25600

- **Max. Video Resolution**

- 3840×2160

- **Max Photo Size**

- 8000×6000

## Wide Camera

- **Sensor**

- 1/2" CMOS, Effective pixels: 12M

- **Lens**

- DFOV: 84°

Focal length: 4.5 mm (equivalent: 24 mm)

Aperture: f/2.8

Focus: 1 m to  $\infty$

- **Exposure Compensation**

- $\pm 3$  ev (using 1/3 ev as step length)

- **Electronic Shutter Speed**

- Auto Mode:

Video:

1/8000-1/2 s

Video: 1/8000-1/30 s

M Mode:

Photo: 1/8000-8 s

Photo: 1/8000-1/30 s

- **ISO Range**

- 100-25600

- **Max. Video Resolution**

- 3840×2160

- **Photo Size**

- 4000×3000

## Thermal Camera

- **Thermal Imager**

- Uncooled VOx Microbolometer

- **Lens**

- DFOV: 61°

Focal length: 9.1 mm (equivalent: 40 mm)

Aperture: f/1.0

Focus: 5 m to  $\infty$

- **Infrared Temperature Measurement Accuracy<sup>[4]</sup>**

- $\pm 2^{\circ}\text{C}$  or  $\pm 2\%$  (using the larger value)

- **Video Resolution**

- Infrared Image Super-resolution Mode: 1280×1024

Normal Mode: 640×512

- **Photo Size**

- Infrared Image Super-resolution Mode: 1280×1024

Normal Mode: 640×512

- **Pixel Pitch**

- 12  $\mu\text{m}$

- **Temperature Measurement Method**

- Spot Meter, Area Measurement

- **Temperature Measurement Range**

- High Gain Mode:  $-20^{\circ}$  to  $150^{\circ}$  C ( $-4^{\circ}$  to  $302^{\circ}$  F)

Low Gain Mode:  $0^{\circ}$  to  $500^{\circ}$  C ( $32^{\circ}$  to  $932^{\circ}$  F)

- **Temperature Alert**



- Supported
- **Palette**
  - White Hot/Black Hot/Tint/Iron Red/Hot  
Iron/Arctic/Medical/Fulgurite/Rainbow 1/Rainbow 2

## FPV Camera

- **Resolution**
  - 1920×1080
- **DFOV**
  - 161°
- **Frame Rate**
  - 30 fps

## Laser Module

- **Wavelength**
  - 905 nm
- **Max Laser Power**
  - 3.5 mW

- **Single Pulse Width**

- 6 ns

- **Measurement Accuracy**

- $\pm (0.2 \text{ m} + D \times 0.15\%)$

D is the distance to a vertical surface

- **Measuring Range**

- 3-1,200 m (0.5×12 m vertical surface with 20% reflectivity)

## Vision Systems

- **Obstacle Sensing Range**

- Forward: 0.6-38 m

Upward/Downward/Backward/Sideward: 0.5-33 m

- **FOV**

- 65° (H), 50° (V)

- **Operating Environment**

- Surfaces with clear patterns and adequate lighting (> 15 lux)

## Infrared Sensing Systems

- **Obstacle Sensing Range**
  - 0.1 to 10 m
- **FOV**
  - 30°
- **Operating Environment**
  - Large, diffuse, and reflective obstacles (reflectivity >10%)

## TB30 Intelligent Flight Battery

- **Capacity**
  - 5880 mAh
- **Voltage**
  - 26.1 V
- **Battery Type**
  - Li-ion 6S
- **Energy**
  - 131.6 Wh
- **Net Weight**
  - Approx. 685 g
- **Operating Temperature**
  - -20° to 50° C (-4° to 122° F)
- **Storage Temperature**

- 20° to 30° C (68° to 86° F)
- **Charging Temperature**
  - -20° to 40° C (-4° to 104° F)

(When the temperature is lower than 10° C (50° F), the self-heating function will be automatically enabled. Charging in a low temperature may shorten the lifetime of the battery)

- **Chemical System**
  - LiNiMnCoO<sub>2</sub>

## Auxiliary Lights

- **Effective Illumination Distance**
  - 5 m
- **Illumination Type**
  - 60 Hz, solid glow

## Remote Controller

- **Screen**

- 7.02 inch LCD touchscreen, with a resolution of 1920×1200 pixels, and high brightness of 1200 cd/m<sup>2</sup>

- **Internal Battery**

- Type: Li-ion (6500 mAh @ 7.2 V)

Charge Type: Supports battery station or USB-C charger maximum rated power 65W (max voltage of 20V)

Charge Time: 2 hours

Chemical System: LiNiCoAlO<sub>2</sub>

- **External Battery(WB37 Intelligent Battery)**

- Capacity: 4920 mAh

Voltage: 7.6 V

Battery Type: Li-ion

Energy: 37.39 Wh

Chemical System: LiCoO<sub>2</sub>

- **Operating Time<sup>[5]</sup>**

- Internal Battery: Approx. 3 hours 18 min

Internal Battery + External Battery: Approx. 6 hours

- **Ingress Protection Rating<sup>[3]</sup>**

- IP54

- **GNSS**

- GPS+Galileo+BeiDou

- **Operating Temperature**

- -20° to 50° C (-4° to 122° F)

## O3 Enterprise

- **Operating Frequency<sup>[1]</sup>**
  - 2.4000-2.4835 GHz, 5.725-5.850 GHz
- **Max Transmission Distance (unobstructed, free of interference)**
  - 15 km (FCC); 8 km (CE/SRRC/MIC)
- **Max Transmission Distance (with interference)**
  - Strong Interference (urban landscape, limited line of sight, many competing signals): 1.5-3 km (FCC/CE/SRRC/MIC)  
Medium Interference (suburban landscape, open line of sight, some competing signals): 3-9 km (FCC); 3-6 km (CE/SRRC/MIC)  
Weak Interference (open landscape abundant line of sight, few competing signals): 9-15 km (FCC); 6-8 km (CE/SRRC/MIC)
- **Transmitter Power (EIRP)**
  - 2.4 GHz: <33 dBm (FCC); <20 dBm (CE/SRRC/MIC)  
5.8 GHz: <33 dBm (FCC); <14 dBm (CE); <23 dBm (SRRC)

## Wi-Fi

- **Protocol**
  - Wi-Fi 6
- **Operating Frequency<sup>[1]</sup>**
  - 2.4000-2.4835 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)
  - 5.1 GHz: <26 dBm (FCC); <23 dBm (CE/ SRRC/MIC)
  - 5.8 GHz: <26 dBm (FCC/SRRC); <14 dBm(CE)

## Bluetooth

- **Protocol**
  - Bluetooth 5.1
- **Operating Frequency**
  - 2.4000-2.4835 GHz
- **Transmitter Power (EIRP)**
  - <10 dBm

## BS30 Intelligent Battery Station

- **Dimensions**
  - 353×267×148 mm
- **Net Weight**
  - 3.95 kg
- **Compatible Battery Type**
  - TB30 Intelligent Flight Battery
  - WB37 Intelligent Battery
- **Input**
  - 100-240 VAC, 50/60 Hz
- **Output**
  - TB30 Battery Port: 26.1 V, 8.9 A (supported up to two outputs simultaneously)
  - WB37 Intelligent Battery: 8.7 V, 6 A
- **Output Power**
  - 525 W
- **USB-C port**
  - Max. output power of 65 W
- **USB-A port**
  - Max. output power of 10 W (5 V, 2 A)
- **Power Consumption (when not charging battery)**
  - < 8 W
- **Output Power (when warming up battery)**
  - Approx. 30 W



- **Operating Temperature**
  - -20° to 40° C (-4° to 104° F)
- **Ingress Protection Rating<sup>[3]</sup>**
  - IP55 (with the cover closed properly)
- **Charging Time<sup>[6]</sup>**
  - Approx. 30 min (charging two TB30 batteries from 20% to 90%)
  - Approx. 50 min (charging two TB30 batteries from 0% to 100%)
- **Protection Features**
  - Anti-Backflow Protection
  - Short Circuit Protection
  - Over Voltage Protection
  - Over Current Protection
  - Temperature Protection

## Other

- **Footnotes**
  - [1] 5.8 and 5.1GHz frequencies are prohibited in some countries. In some countries, the 5.1GHz frequency is only allowed for use indoors.
  - [2] The maximum flight time and the hover time were tested in a lab environment and is for reference only.

[3] This protection rating is not permanent and may reduce over time after long-term use.

[4] Infrared temperature measurement accuracy was tested in a lab environment and is for reference only.

[5] The maximum operating time was tested in a lab environment and is for reference only.

[6] The charging time was tested in a lab environment at room temperature. The value provided should be used for reference only.