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** 4069 a Max Takeoff Weight for C2 Certification in EU 3998 g **Operation Frequency**[1] 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: ±0.1 m (Vision System enabled); ±0.5 m (N-mode with GPS); ±0.1 m (RTK) Horizontal: ±0.3 m (Vision System enabled); ± 1.5 m (N-mode with GPS); ± 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°/sec.; Yaw: 100°/sec. **Max Tilt Angle** 35° (N-mode and Forward Vision System enabled: 25°) 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** 12 m/s 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° to +45° Mechanical Range Pan: $\pm 105^{\circ}$ Tilt: -135° to +60° 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 ∞ **Exposure Compensation** $\pm 3 \text{ ev}$ (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 ∞ **Exposure Compensation** $\pm 3 \text{ ev}$ (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 **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 ∞ **Sensitivity** ≤30 mk@F1.1 **Infrared Temperature Measurement** Accuracy[4] $\pm 2^{\circ}$ C or $\pm 2^{\circ}$ (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 um

Temperature Measurement Method Spot Meter, Area Measurement **Temperature Measurement Range** High Gain Mode: -20° to 150° C (-4° to 302° F) Low Gain Mode: 0° to 500° C (32° to 932° 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 ± (0.2 m + D×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 selfheating function will be automatically enabled. Charging in a low temperature may shorten the lifetime of the battery)

Chemical System LiNiMnCoO2

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/m2

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: LiNiCoAlO2

External Battery(WB37 Intelligent Battery)

Capacity: 4920 mAh Voltage: 7.6 V Battery Type: Li-ion Energy: 37.39 Wh Chemical System: LiCoO2

Operating Time[5]

Internal Battery: Approx. 3 hours 18 min Internal Battery + External Battery: Approx. 6 hours

Ingress Protection Rating[3] IP54 GNSS GPS+Galileo+BeiDou

Operating Temperature -20° to 50° C (-4° to 122° F)

O3 ENTERPRISE

Operating Frequency[1] 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[1] 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[3] IP55 (with the cover closed properly) Charging Time[6] 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.The terms HDMI, HDMI High-Definition Multimedia Interface, HDMI Trade dress and the HDMI Logos are trademarks or registered trademarks of HDMI Licensing Administrator, Inc.

