



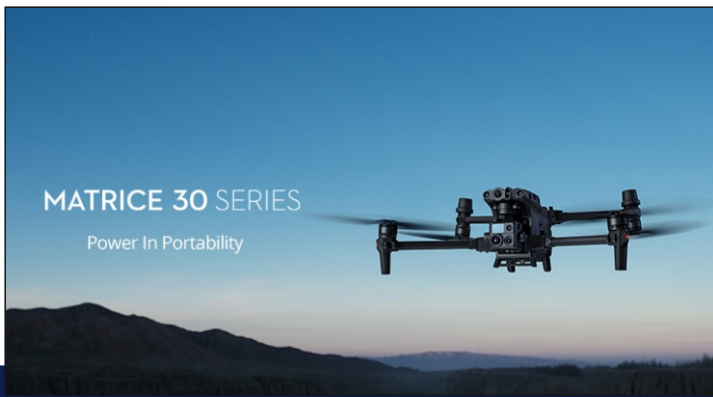
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MATRICE 30



Aircraft

Takeoff weight	4069 g
Dimensions	Unfolded, propellers excluded, 470×585×215 mm (L×W×H) Folded 4365×215×195 mm (L×W×H)
Max Ascent Speed	6 m/s,
Max Descent Speed (vertical)	5 m/s
Max Descent Speed (tilt)	7 m/s
Max Horizontal Speed	23 m/s
Service Ceiling Above Sea Level	5,000 m (with 1671 propellers) 7,000 m (with 1676 propellers)
Max Wind Resistance	12 m/s
Max Flight Time	41 min
Diagonal Wheelbase	668 mm
Weight (incl. two batteries)	3770 ± 10 g
Max Takeoff Weight for C2 Certification in EU	3998 g
GNSS	GPS+Galileo+BeiDou+GLONASS (GLONASS is supported only when RTK module is enabled)
Max Hover Time	36 min
Motor Model	3511
Propeller Model	1671 1676 High Altitude (not included)
Ingress Protection Rating	Ip55
Operating Temperature	-20°C to 50°C (-4°F to 122° F)
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)



Aircraft

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 Pitch Angle	35° (N-mode and Forward Vision System enabled: 25°)

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	Internal Battery: Approx. 3 hours 18 min Internal Battery + External Battery: Approx. 6 hours
Ingress Protection Rating	Ip54
GNSS	GPS+Galileo+BeiDou
Operating Temperature	-20° to 50° C (-4° to 122° F)



Vision System

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%)

FPV Camera

Resolution	1920×1080
FOV	161°
Frame rate	30 fps

Auxiliary Lights

Effective lighting distance	5 m
Illumination Type	60 Hz, solid glow



Tb30 Intelligent Flight Battery

Chemical System	LiNiMnCoO2
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)

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.

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Zoom Camera

Sensor	1/2" CMOS, Effective pixels: 48M
Exposure Compensation	±3 ev (using 1/3 ev as step length)
ISO Range	100-25600
Lens	Focal length: 21-75 mm (equivalent: 113-405 mm) Aperture: f/2.8-f/4.2 Focus: 5 m to ∞
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
Max. Video Resolution	3840×2160
Max Photo Size	8000×6000

Wide Camera

Sensor	1/2" CMOS, Effective pixels: 12M
Exposure Compensation	±3 ev (using 1/3 ev as step length)
ISO Range	100-25600
Lens	DFOV: 84° Focal length: 4.5 mm (equivalent: 24 mm) Aperture: f/2.8 Focus: 1 m to ∞
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
Max. Video Resolution	3840×2160
Max Photo Size	4000×3000



Thermal Camera

Thermal Imager	Uncooled VOx Microbolometer
Sensitivity	≤50 mK@F1.0
Infrared Temperature Measurement Accuracy	±2°C or ±2% (using the larger value)
Lens	DFOV: 61° Focal length: 9.1 mm (equivalent: 40 mm) Aperture: f/1.0 Focus: 5 m to ∞
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
Max. Video Resolution	Infrared Image Super-resolution Mode: 1280×1024 Normal Mode: 640×512
Max 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 Alert	Supported
Palette	White Hot/Black Hot/Tint/Iron Red/Hot Iron/Arctic/Medical/Fulgurite/Rainbow 1/Rainbow 2
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)

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
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	IP55 (with the cover closed properly)
Charging Time	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

Wi-Fi

Protocol	Wi-Fi 6
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)
Operating Frequency[2.4000-2.4835 GHz; 5.150-5.250 GHz; 5.725-5.850 Ghz



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)

O3 Enterprise

Operating Frequency	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)	<p>Strong Interference (urban landscape, limited line of sight, many competing signals): 1.5-3 km (FCC/CE/SRRC/MIC)</p> <p>Medium Interference (suburban landscape, open line of sight, some competing signals): 3-9 km (FCC); 3-6 km (CE/SRRC/MIC)</p> <p>Weak Interference (open landscape abundant line of sight, few competing signals): 9-15 km (FCC); 6-8 km (CE/SRRC/MIC)</p>
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)