ANZU ROBOTICS

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RAPTOR SERIES

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ANZU RAPTOR

REDEFINE YOUR REACH,
DOMINATE THE SKIES

Offering robust features in a compact solution, Anzu Raptor is suited for a wide variatey of commercial applications. Mapping and other missions can be carried out with ease, with raptor offering up to a 45- minute flight time.

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Enterprise Power

Anzu Raptor delivers excellence in mapping missions with accurate positioning through RTK (no GCPs required), mechanical shutter to prevent blur, 56x hybrid zoom, and low-light mode to improve performance in darkened areas.

Secure and Portable

With all data hosted on US-based servers, Anzu puts security at the forefront of operations. Offering the ultimate portability, pilots can easily carry the Anzu Raptor around to a variety of missions, without losing enterprise functionality.

1. Total Data Security: Utilising software developed in the USA with all data hosted on US-based servers

"Ensure sensitive data remains fully secure, in any type of mission by using US-developed software and US-hosted servers that comply with the highest global security standards."

2. Trusted & Secure Supply Chain: Transparent supply chain outside of China, removes risk of future embargoes or punitive tariffs

"Plan long-term investments free from the worries of supply chain disruption, due to a transparent and reliable supply chain, free from the uncertainties of embargoes or tariffs, delivering reliability without compromise."

3. Complies to NATO & US Defence Standards MIL-STD-810: Robust cyber protection and US-based firmware control

"Achieve the highest levels of operational reliability, with the highest-grade drone technology. Built to withstand extreme environments and ensuring uncompromised cyber protection and firmware control for ultimate dependability."

4. World's Most Reliable Airframe Design: Tried & tested, proven airframe design from multi-million flight hours

"Rely on the world's most dependable airframe design, field-tested over millions of flight hours in all mission types."

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	TECHNICAL DESCRIPTION	PERFORMANCE
1	Flight Time	45 minutes
2	Wind Resistance	26 mph
3	Camera	4/3 20mp CMOS. 56x Hybrid Zoom
4	RTK Module	GPS Correction technology

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Specification

Aircraft

SPECIFICATION	PERFORMANCE
Weight (with propellers, without accessories)	915 g
Max Takeoff Weight	1,050 g
Dimensions (Folded)	221×96.3×90.3 mm (L×W×H)
Dimensions (Unfolded)	347.5×283×107.7 mm (L×W×H)
Diagonal Distance	380.1 mm
Max Ascent Speed	6 m/s (Normal Mode) 8 m/s (Sport Mode)
Max Descent Speed	6 m/s (Normal Mode) 6 m/s (Sport Mode)
Max Flight Speed (at sea level, no wind)	15 m/s (Normal Mode) Forward: 21 m/s, Side: 20 m/s, Backward: 19 m/s (Sport Mode)
Max Wind Speed Resistance	12 m/s
Max Take-off Altitude Above Sea Level	6000 m (without payload)
Max Flight Time (no wind)	45 mins
Max Hover Time (no wind)	38 mins
Max Flight Distance	32 km
Max Pitch Angle	30° (Normal Mode) 35° (Sport Mode)
Max Angular Velocity	200°/s
GNSS	GPS+Galileo+BeiDou+GLONASS (GLONASS is supported only when the RTK module is enabled)
Hovering Accuracy	Vertical: ±0.1 m (with Vision System); ±0.5 m (with GNSS); ±0.1 m (with RTK) Horizontal: ±0.3 m (with Vision System); ±0.5 m (with High-Precision Positioning System); ±0.1 m (with RTK)
Operating Temperature Range	-10° to 40° C (14° to 104° F)
Internal Storage	N/A
Motor Model	2008
Propeller Model	9453F Propellers for Enterprise
Beacon	Built into the aircraft
Class	C2 (EU)

Gimbal

SPECIFICATION	PERFORMANCE
Stabilization	3-axis (tilt, roll, pan)
Mechanical Range	Tilt: -135° to 100° Roll: -45° to 45° Pan: -27° to 27°
Controllable Range	Tilt: -90° to 35° Pan: Not controllable
Max Control Speed (tilt)	100°/s
Angular Vibration Range	±0.007°

Storage

SPECIFICATION	PERFORMANCE
Supported Memory Cards Aircraft:	U3/Class10/V30 or above is required. A list of recommended microSD cards can be found below.
Remote Controller:	SanDisk Extreme PRO 64GB V30 A2 microSDXC, SanDisk High Endurance 64GB V30 microSDXC, SanDisk Extreme 128GB V30 A2 microSDXC, SanDisk Extreme 256GB V30 A2 microSDXC, SanDisk Extreme 512GB V30 A2 microSDXC, Lexar 667x 64GB V30 A2 microSDXC, Lexar High-Endurance 64GB V30 microSDXC, Lexar High-Endurance 128GB V30 microSDXC, Lexar 667x 256GB V30 A2 microSDXC, Lexar 512GB V30 A2 microSDXC, Samsung EVO Plus 64GB V30 microSDXC, Samsung EVO Plus 128GB V30 microSDXC, Samsung EVO Plus 256GB V30 microSDXC. Samsung EVO Plus 512GB V30 microSDXC, Kingston Canvas Go! Plus 128GB V30 A2 microSDXC, Kingston Canvas React Plus 128GB V90 A1 microSDXC
Aircraft:	SanDisk Extreme 32GB V30 A1 microSDHC, SanDisk Extreme PRO 32GB V30 A1 microSDHC, SanDisk Extreme 512GB V30 A2 microSDXC, Lexar 1066x 64GB V30 A2 microSDXC, Kingston Canvas Go! Plus 64GB V30 A2 microSDXC, Kingston Canvas React Plus 64GB V90 A1 microSDXC, Kingston Canvas Go! Plus 128GB V30 A2 microSDXC, Kingston Canvas React Plus 128GB V90 A1 microSDXC, Kingston Canvas React Plus 256GB V90 A2 microSDXC, Samsung PRO Plus 256GB V30 A2 microSDXC

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Specification

Wide Camera

SPECIFICATION	PERFORMANCE
Sensor	4/3 CMOS, Effective pixels: 20 MP
Lens	FOV: 84° Format Equivalent: 24 mm Aperture: f/2.8-f/11 Focus: 1 m to ∞
ISO Range	100-6400
Shutter Speed	Electronic Shutter: 8-1/8000 s Mechanical Shutter: 8-1/2000 s
Max Image Size	5280×3956
Still Photography Modes	Single: 20 MP Timed: 20 MP JPEG: 0.7/1/2/3/5/7/10/15/20/30/60 s JPEG+RAW: 3/5/7/10/15/20/30/60 s Smart Low-light Shooting: 20 MP Panorama: 20 MP (raw image)
Video Resolution	H.264 4K: 3840×2160@30fps FHD: 1920×1080@30fps
Bitrate	4K: 130 Mbps FHD: 70 Mbps
Supported File Formats	exFAT
Photo Format	JPEG/DNG (RAW)
Video Format	MP4 (MPEG-4 AVC/H.264)

Tele Camera

SPECIFICATION	PERFORMANCE
Sensor	4/3 CMOS, Effective pixels: 20 MP
Lens	FOV: 84° Format Equivalent: 24 mm Aperture: f/2.8-f/11 Focus: 1 m to ∞
ISO Range	100-6400
Shutter Speed	Electronic Shutter: 8-1/8000 s Mechanical Shutter: 8-1/2000 s
Max Image Size	5280×3956
Still Photography Modes	Single: 20 MP Timed: 20 MP JPEG: 0.7/1/2/3/5/7/10/15/20/30/60 s JPEG+RAW: 3/5/7/10/15/20/30/60 s Smart Low-light Shooting: 20 MP Panorama: 20 MP (raw image)
Video Resolution	H.264 4K: 3840×2160@30fps FHD: 1920×1080@30fps
Bitrate	4K: 130 Mbps FHD: 70 Mbps
Supported File Formats	exFAT
Photo Format	JPEG/DNG (RAW)
Video Format	MP4 (MPEG-4 AVC/H.264)

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Specification

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Sensing

SPECIFICATION	PERFORMANCE
Type	Omnidirectional binocular vision system, supplemented with an infrared sensor at the bottom of the aircraft.
Forward	Measurement Range: 0.5-20 m Detection Range: 0.5-200 m Effective Sensing Speed: Flight Speed ≤15 m/s FOV: Horizontal 90°, Vertical 103°
Backward	Measurement Range: 0.5-16 m Effective Sensing Speed: Flight Speed ≤12 m/s FOV: Horizontal 90°, Vertical 103°
Lateral	Measurement Range: 0.5-25 m Effective Sensing Speed: Flight Speed ≤15 m/s FOV: Horizontal 90°, Vertical 85°
Upward	Measurement Range: 0.2-10 m Effective Sensing Speed: Flight Speed ≤6 m/s FOV: Front and Back 100°, Left and Right 90°
Downward	Measurement Range: 0.3-18 m Effective Sensing Speed: Flight Speed ≤6 m/s FOV: Front and Back 130°, Left and Right 160°
Operating Environment	Forward, Backward, Lateral, and Upward: Surface with a clear pattern and adequate lighting (lux >15) Downward: Diffuse reflective surface with diffuse reflectivity>20% (e.g. walls, trees, people) and adequate lighting (lux >15)

Speaker

SPECIFICATION	PERFORMANCE
Dimensions	114.1×82.0×54.7 mm (L×W×H)
Weight	15.4 V
Interface	17.6 V
Rated Power	17.6 V
Max Volume	LiPo 4S
Effective Broadcast Distance	LiCoO2
Bit Rate	77 Wh
Operating Temperature Range	335.5 g
Charging Temperature	5° to 40° C (41° to 104° F)

RTX Module

SPECIFICATION	PERFORMANCE
Dimensions	50.2×40.2×66.2 mm (L×W×H)
Weight	24±2 g
Interface	USB-C
Power	Approx. 1.2 W
RTK Positioning Accuracy	RTK Fix: Horizontal: 1 cm + 1 ppm; Vertical: 1.5 cm + 1 ppm

Battery

SPECIFICATION	PERFORMANCE
Capacity	5000 mAh
Standard Voltage	15.4 V
Max Charging Voltage	17.6 V
Max Charging Voltage	17.6 V
Type	LiPo 4S
Chemical System	LiCoO2
Energy	77 Wh
Weight	335.5 g
Charging Temperature	5° to 40° C (41° to 104° F)

Charger

SPECIFICATION	PERFORMANCE
Input	100-240 V (AC Power), 50-60 Hz, 2.5 A
Output Power	100 W
Output	Max. 100 W (total) When both ports are used, the maximum output power of each interface is 82 W, and the charger will dynamically allocate the output power of the two ports according to the load power.

Charging Hub

SPECIFICATION	PERFORMANCE
Input	USB-C: 5-20 V, 5.0 A
Output	Battery Port: 12-17.6 V, 8.0 A
Rated Power	100 W
Charging Type	Three batteries charged in sequence
Charging Temperature Range	5° to 40° C (41° to 104° F)

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