

AUTEL
ROBOTICS

EVO Max 4N & T

Reach New Frontiers



No Blind
Spots



Navigation In GPS
Denied Environments



IP43 Weather
Rating



Hot-Swappable
Batteries



 **ralika**group

Aircraft Battery		Millimeter-wave Radar Sensing System	
Capacity	8070 mAh	Frequency	
Voltage	14.88V	Dimensions	1.5*0.55*0.08 in (L*W*H)
Battery Type	LiPo 4S	Weight	0.07oz (2g)
Energy	120 Wh	EIRP	18dBm
Net Weight	1.15 lbs (520g)	Sensing Range	Upward: 5.9~787.4in (0.15~20m) Downward: 3.9~4724.4in(0.1~120m) Forward and Backward (Standard/Comfortable): 0.82~98.43ft (0.25~30m) Forward and Backward (Ludicrous): 1.64~196.85ft (0.5~60m)
Charging Temperature	41° F to 113° F (5°C to 45°C) When the temperature is lower than 50° F (10° C), the selfheating function will be automatically enabled. Charging in a low temperature may shorten the lifetime of the battery.	FOV	Horizontal (6dB): ±60°, Vertical (6dB): ±30°
Hot Swap	Support	Speed Measurement Range	± 134mph (60m/s)
		Speed Measurement Accuracy	≤1%
		Max. Target Detection Number	32

Zoom Camera	
Sensor	1/2" CMOS, Effective pixels: 48M
Lens	Focal length: 11.8-43.3mm (35mm, equivalent: 64-234mm) Aperture: f/2.8-f/4.8
ISO Range	Auto: ISO100 ~ ISO6400 Manual: Photo: ISO100 ~ ISO12800 Video: ISO100 ~ ISO6400

Wide Camera	
Sensor	1/1.28" CMOS, Effective pixels: 50M
Lens	DFOV: 85° Focal length: 4.5 mm (equivalent: 23 mm) Aperture: f/1.9 AF motor: 8-wire SMA, PDAF focus
ISO Range	Auto: Photo: ISO100~ISO6400 Video: ISO100~ISO64000 (Night scene mode: up to ISO64000) Manual: Photo: ISO100~ISO12800 Video: ISO100~ISO6400

Thermal Camera	
Thermal Imager	Uncooled VOx Microbolometer
Lens	DFOV: 64° Aperture: 13mm Focus: f/1.2
Infrared Temperature Measurement Accuracy	26.6~37.4 °F or reading ±3% (using the larger value) @ambient temperature -4 °F to 140 °F
Video Resolution	640*512
Temperature Measurement Range	-4°F to 302°F, 32°F to 1022°F (-20°C to 150°C, 0 to 550°C)
Temperature Alert	High and low temperature alarm thresholds, reporting coordinates and temperature values

Laser Rangefinder	
Measurement Accuracy	±3.3ft (1m)
Measuring Range	3937ft (1200m)

Autonomy

Non-GPS Hovering And Manual Flight	Indoor: Horizontal error \leq 1.18in (At least have texture at one direction) Outdoor: Daytime: Within 1640ft (500m) flight height, horizontal error $<$ 0.01*height Night: Manual flight is controllable within 328ft (100m) flight height
Non-GPS Return-to-Home	Within 1640ft (500m) flight height, horizontal error of Return-to-Home point $<$ 11.81in
Automatic Obstacle Rerouting	High Speed Obstacle Rerouting: Flight speed up to 45mph(20m/s) when Min. safety distance to obstacle is 4.9ft (1.5m) High Precision Obstacle Rerouting: Flight speed could reach 6.7mph(3m/s) when Min. safety distance to obstacle is 1.64ft (0.5m)
Multi-target Recognition And Tracking	Target identification types: people, vehicles, boats Number of targets detected: 64 Comprehensive recognition accuracy: $>$ 85%

*Please fly safely and consult your local laws and regulations.

