

# LA500-RTK

# DATASHEET

<b>USAGE</b>	Projects	High Precision Mapping
	Applications	Land surveying, mining
<b>AIRCRAFT</b>	Wingspan (fixed wing)	116cm (incl. detachable winglets)
	Weight (incl. camera & battery)	Up to 1250grams (with Sony α6000 camera)
	Material	EPP foam, carbon fiber and aluminium
	Propulsion	Electric pusher propeller, brushless motor
	Battery	11.1V, 2500 to 4000mAh
	Data modem Range	Up to 3km • 1.9 miles
	Data modem Frequency	2.4Ghz
	Detachables Winglets	Yes
	Outputs & Storage	USB 2.0, WiFi, micro-SD
<b>OPERATIONS</b>	Maximum flight time	30min (3000mAh) • 45min (4000mAh)
	Range	Up to 25km • 15.5 miles
	Cruise Speed	20-80km/h • 12.5-50mph
	Wind resistance	20kt • 37km/h • 23mph
	Operating Temperature	From -25 to +60°C • From -13 to +140°F
	Humidity	Up to 90% noncondensing
	Precipitation	No rain, no snow
	Maximum Ceiling	3,500m ASL (11,480ft ASL)
	Automatic take off, flight and landing	Yes, with circular or straight in landing
	Linear landing accuracy	Approx. 10m • 33ft
	Pre-flight setup time	5 minutes
	Take off type	Hand launch
	Landing type	Belly landing
	Real Time Trajectory Control at Landing	Yes, through the Data Modem box
<b>PAYLOAD</b>	Maximum Payload capability	250grams • Up to 400grams (with optional wing)
	Camera (included)	-
	Camera (optional, not included)	Sony α6000 (24.3MP mirrorless APS-C)
	Oblique imagery	Yes (with optional mount for GoPro only)
<b>MAPPING</b>	Ground Sampling Distance (GSD)	Down to 1.0cm (0.4in) per pixel *
	Maximum coverage (single flight)	10km <sup>2</sup> • 3.9mi <sup>2</sup> • 1000ha (at 1,000m/3,280ft AGL)
	Absolute horizontal/vertical accuracy (w/GCPs)	-
	Absolute horizontal/vertical accuracy (no GCPs)	Down to 3cm (1.2in) / 5cm (2in) *
	Ground control points (GCPs) required	No
<b>SOFTWARE</b>	Flight planning & control (supplied)	OperationCenter v2 (Windows 10 touchscreen device)
	Image processing (optional)	Agisoft or Pix4D native files
<b>WARRANTY</b>	Manufacturer Warranty	1 year **
<b>IN THE BOX</b>	1 Autopilot box, 1 Wing (with 2 Winglets), 1 USB radio data modem, 1 USB cable, 1 Charger 2 Batteries 2500mAh, 1 Camera mount, 1 Set of accessories (screwdrivers, spare propeller, scotch, etc...)	

\* Depends upon environmental conditions (light, wind, surface type, use of GCPs).

\*\* Coverage is subject to conditions and limitations