## 03 TECHNICAL SPECIFICATIONS

TECHNICAL DATA	LOCKED <60 MINUTES	UNLOCKED 90+ MINUTES <sup>1</sup>
Max. Take-off Weight	5.5 kg (12.0 lbs)	5.5 kg (12.0 lbs)
Allowed C.G. from leading edge	85-91 mm	85-91 mm
Max. Flight Time	<60 min	90+ min <sup>1</sup>
Max. Range = Area	70 km = 500 ha	100 km = 700 ha
Maximum flight altitude (MSL)	4500 m (13123.4 ft) <sup>2</sup>	4500 m (13123.4 ft) <sup>2</sup>
Command and Control (C2) Range	5-7.5 km³ (3.1-4.7 mi)	5 - 7.5 km³ (3.1 - 4.7 mi)
C2 Latency	<60 ms	<60 ms
Optimal Cruise Speed	17-18 m/s (35 kn) <sup>4</sup>	17-18 m/s (35 kn) <sup>4</sup>
V <sub>NE</sub> (Velocity never exceed)	35 m/s	35 m/s
Wind Tolerance (ground)	up to 9 m/s (17.5 kn) <sup>5</sup>	up to 9 m/s (17.5 kn) <sup>5</sup>
Wind Tolerance (cruise)	12 m/s (23.3 kn)	12 m/s (23.3 kn)
Battery Capacity	12Ah	12 Ah
Payload	max. 1000 g (2.2 lbs)	max. 1000 g (2.2 lbs)
Battery Weight	1.5 kg (3.3 lbs)	1.5 kg (3.3 lbs)
Maximum bank angle	43°	43°
Minimum turn radius	31.8 m	31.8 m
Maximum sink rate in aerodynamic flight	2 m/s	2 m/s
Maximum climb rate in aerodynamic flight	9 m/s (7 m/s ) <sup>6</sup>	9 m/s (7 m/s ) <sup>6</sup>
Maximum sink rate in hover flight	3 m/s	3 m/s
Maxium climb rate in hover flight	4 m/s (3.5 m/s) <sup>6</sup>	4 m/s (3.5 m/s) <sup>6</sup>

- 1 Subject to export requlation, may require export permission.
- 2 Please be aware that the flight time and max. wind tolerance are reduced with increasing flight altitude. Depending on the weather conditions; tested at 15° C (59° F). For further details read the user manual chapter 3.1.
- 3 Under optimal conditions.
- 4 Depending on payload configuration (see chapter 3.2).
- 5 Please be aware that the max. wind tolerance is reduced with increasing flight altitude.
- 6 With a Take-Off-Mass >5kg (Qube 240 LiDAR Payload)

TECHNICAL DATA	LOCKED <60 MINUTES	UNLOCKED 90+ MINUTES <sup>1</sup>	7 Please follow the local
RC transmitter frequency	2.4 GHz	2.4 GHz	regulations for the maximum allowed transmission power.
Telemetry link (QBase Modem) frequency	2.4 GHz	2.4 GHz	8 For outside temperature
Telemetry link (QBase Modem) power	max. 100 mW <sup>7</sup>	+max. 100 mW <sup>7</sup>	< 10°(<50°F): • Heat up the battery to 25°C
Operating temperature range	-12°C to 50°C (10.4°F to 122°F) <sup>8</sup>	-12°C to 50°C (10.4°F to 122°F) <sup>8</sup>	(77 °F) for at least 5 hours For outside temperature < 0° (<32 °F): • Heat up the battery to 25°C
Wingspan	2.394 m (7.85 ft)	2.394 m (7.85 ft)	(77°F) for at least 5 hours • The flight time will be redu-
Transport Case Dimension	1002 x 830 x 270 mm (39.4 x 32.7 x 10.6 inch)	1002×830×270 mm (39.4×32.7×10.6 inch)	ced to max. 70 minutes.
Transport Case Weight (3 batteries)	22.3 kg (49.1 lbs)	22.3 kg (49.1 lbs)	
Front Propeller Speed	12,000 rpm	12,000 rpm	
Rear Propeller Speed	10,000 rpm	10,000 rpm	