ACECORE

NOA

Specification Sheet

AC-NO-H6-Q30-SPECS
V1.1
October 2025

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Section 01
Hardware Specifications

WEIGHT

Maximum gross for takeoff	36.9kg (81.4lbs)
Maximum payload	19.8kg (43.7lbs)
Minimum standard empty weight	11.8kg (26.0lbs)

DRIVE

Energy type	Electrical
Number of motors	6
Motor type	Acecore Direct Drive 3-phase BLDC out runner
Operating voltage	35V - 52V
Motor max. continuous power	2000W
Equivalent KV	120rpm/V
ESC	6× Acecore BLDC Noa driver
Max. continuous current draw	40A/motor

PROPELLER

Material	Foamed Core 3K Twill Weave Carbon Fiber
Propeller setup	3 CW + 3 CCW
Propeller size	28.4×9.2 inch

PAYLOAD

Vibration isolation system	Octo metal wire damper system
Mounting options	Top and/or bottom
Mounting system	User preference
Battery rack	On top of centerpiece

Section 02
Electronics

AVIONICS

Flight controller	Cube Orange+ / Blue
Radio	Herelink (Blue) / Doodle Labs / Silvus Technologies / Persistent Systems MPU5 / Kongsberg / custom
GPS (dual)	M8P / F9P / custom

BATTERY Tattu

Battery	Lithium-polymer
Connectors	XT90 / AS150
Capacity	23Ah / 17Ah / 11Ah
Nominal battery voltage	48V (12S)
Minimum battery quantity	2× double battery (serial connected)
Maximum battery voltage	52V
Minimum average battery voltage	42V

BATTERY Tulip Tech

Battery	Lithium-ion
Connectors	XT90 / AS150
Capacity	38Ah
Nominal battery voltage	44.4V (12S)
Minimum battery quantity	2× double battery (serial connected)
Maximum battery voltage	52V
Minimum average battery voltage	35V

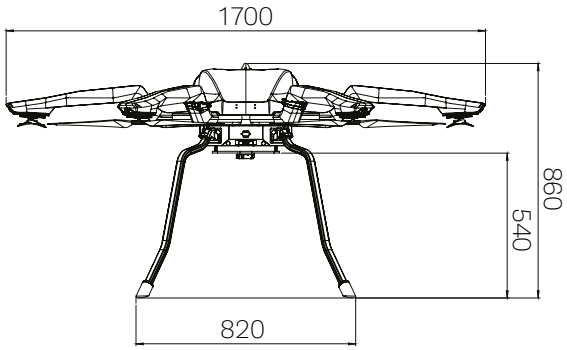
POWER OUTPUT PANEL

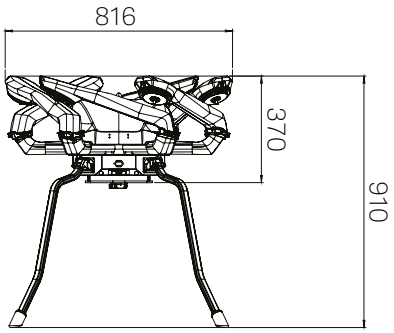
Power connector	3× XT30 (user preference voltage), fused (Mini Blade Fuse), 100W on resistive load, 50W on inductive load
PWM	1× Dupont 3-pin
Telemetry	1× JST GH1.25 3-pin

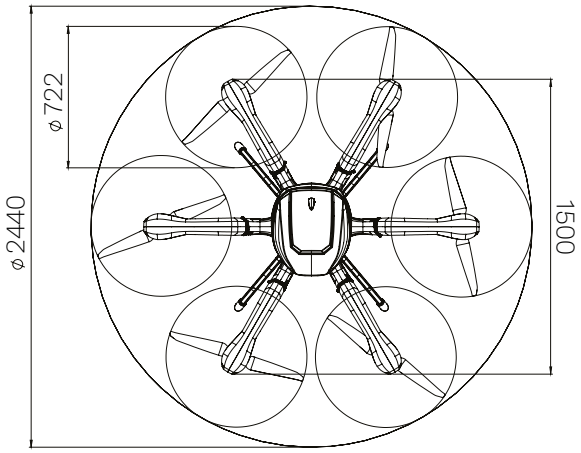
PAYLOAD INTERFACE PANEL

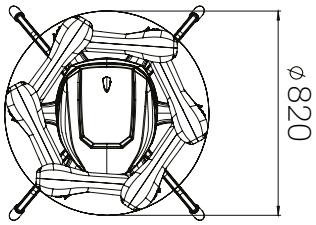
Power + communication	LEMO 1B (7-pin) / RIEGL LEMO / custom, fused (Mini Blade Fuse)

Section 03
System Specifications









DIMENSIONS

Frame dimensions	1500×1700×860mm (l×w×h)
Rotor to rotor diagonal	1700mm
Diameter with propellers	2440mm
Height up to payload quick release	540mm
Ground clearance to propeller	690mm

OPERATING ENVIRONMENT

Operating temperature	-15°C to 50°C
Maximum wind resistance	29 knots
Maximum precipitation	Moderate rain conditions, dry conditions recommended
Maximum downfall	10mm/h, 30mm/3h

FLIGHT CHARACTERISTICS

Maximum pitch / roll angle	45° from horizontal
Maximum yaw rate	150°/s
Maximum flight speed	85km/h (23.6m/s)
Flight modes	GPS mode - Altitude mode - Auto mode - Brake - Stabilize
Hovering accuracy	0.05m vertical / 0.05m horizontal
Ascent speed	Configurable 2m/s - 5m/s
Descent speed	Configurable 2m/s - 15m/s
Cruise speed	Configurable 1m/s - 15m/s

Section 04
Flight Times

These flight times are representations of the typical flight time in normal conditions and depend on several factors. The conditions in which these flight times have been tested are at 18°C ambient temperature, and a nominal wind speed of 8 knots while hovering at a height of 5 meters above ground. The Noa is put back on the ground with 10 percent battery capacity left.