



HYCOPTER HYDROGEN MULTI-ROTOR DRONE

UP TO 3.5 HOURS FLIGHT ENDURANCE

H3 Dynamics

The H3 Dynamics HYCOPTER is a hydrogen electric hexacopter drone capable of long endurance flight, making large-scale inspections easier and faster, compared to conventional battery UAVs.

The HYCOPTER integrates a lightweight airframe that houses an open cargo bay allowing multiple payload options. Featuring a modular design and an adjustable centre of gravity (CG), the HYCOPTER can be perfectly balanced regardless of the payload and cylinder configuration.

The HYCOPTER is powered by H3 Dynamics AEROSTAK 1500 fuel cell, carries one hydrogen gas cylinder and has an emergency battery backup on board as a failsafe.

AIRCRAFT

MTOW	16.5 kg
Dimensions ¹	D : 1 450 mm H : 500 mm
Flight Time ²	Up to 3.5 h
FC Nominal Power ³	1 500 W
LiPo Peak Power	4 000 W (< 10 s)
Oper. Temperature	-5 °C to 45 °C
Flight Controller	Pixhawk 2.0
Max. Speed ⁴	48 km/h
Max. Ascendent Speed ⁴	3.2 m/s
Max. Descendent Speed ⁴	2.2 m/s
Max. Tilt Angle	32 °
Pitch	150 °/s
Yaw	80 °/s
Wind Survivability	32 km/h

PAYLOAD

Volume	L : 260 mm W : 330 mm H : 200 mm
Max. Weight	2.5 kg
Voltage	5 - 32 V
Max. Power ⁵	180 W

REMOTE CONTROLLER

Model	HereLink
Operational Frequency	2.4 Ghz
Battery	4 950 mAh LiPo
Max. Transmitting Distance	FCC : 20 km CE , SRRC : 12 km



¹ Excluding propellers

² Depending on H₂ cylinder and payload

³ Using the Aerostak A-1500

⁴ Payload dependent

⁵ Optional