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ST-NH6D420

VTOL DRONE





Innovative Sealed VTOL Drone Platform

The unmanned system ST-NH6D420 was designed for use in demanding environments, including Maritime applications. This UAV is completely sealed to prevent negative impacts of salty environments. The innovative design makes the ST-NH6D420 perfect for both Land and Maritime VTOL situations including use on ships and boats. The system can be equipped with fully electric, hybrid or fuel-cell hydrogen propulsion depending on the requirement and application.

The sealed design and buoyancy on the water enable emergency landings or landings on the water, which is an innovative solution.



Complete flight electronics is integrated in detachable nose cone so it is possible to quickly change complete control system.



Propulsion system is IP rated and motors can run even if completely submerged in salt water.



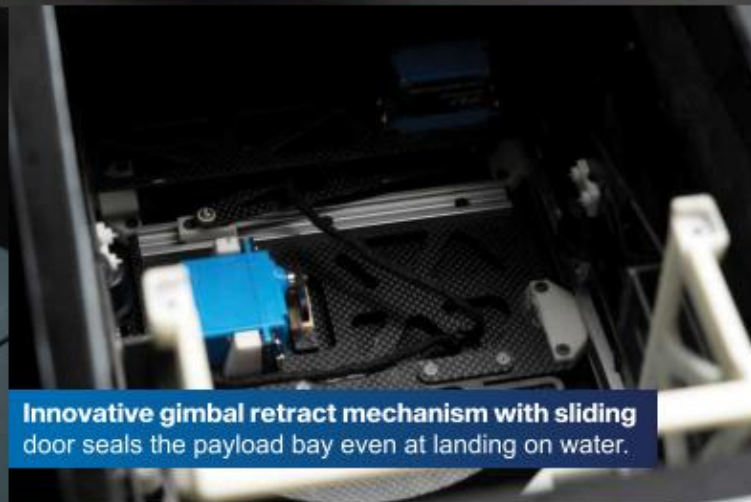
With quick-swappable trays for batteries



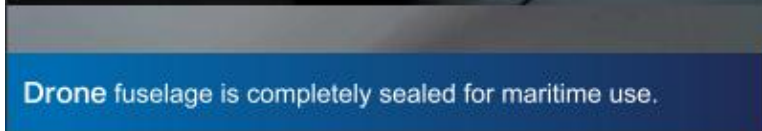
**Quick-release mounts for props.
Tail booms enable fast and secure assembly.**



Optional ballistic parachute for added safety



Innovative gimbal retract mechanism with sliding door seals the payload bay even at landing on water.



Drone fuselage is completely sealed for maritime use.



Extremely large cargo space dimensions (45x23x23cm) allow to install a gimbal of large dimensions with different characteristics.



Possibility of Landing on Water



Technical Data ST-NH6D420 VTOL

Physical	
Aircraft Take-off Weight (Max)	19 kg
Wingspan	3,0 m
Length	1,9 m
Height	0,7 m
Propulsion	Electric or Electric+Gas
Payload Weight (Max)	5 kg
Payload Place Dimensions (Max)	45 x 23 x 23 cm
Payload Power (Max)	15W @ 5V and 35W @ 12V (Mauch Premium line). Stronger power supply on demand.
Communications	
Frequency (Primary)	868 MHz or 900 MHz
Transmit Power (Primary)	1 W max (configurable)
Bandwidth (Primary)	57 kbps
Range (Maximum)	100+ km BVLOS
Protocol (Primary)	MAVLink
Transceiver (Backup)	RC PPM
Flight	
Airspeed (Cruise)	20 m/s (72 km/h)
Airspeed (Max)	35 m/s (125 km/h)
Range (At cruise)	420 km
Endurance (at Cruise)	2.5 hrs. Electric - 6 hrs. Gas
Operations	
Take- off an landing place	10 x 10 m autonomous, 5 x 5 m autonomous + operator

