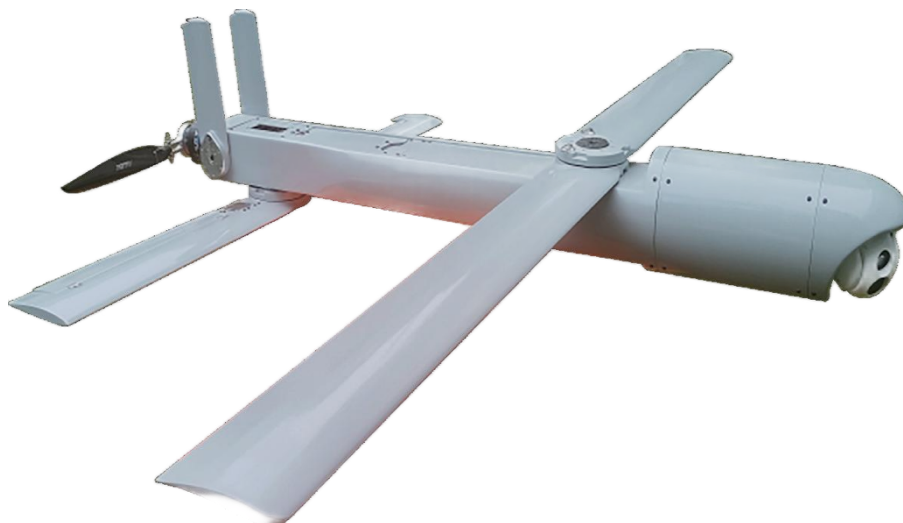


HDS-NSS SWARM DRONE



The **HDS-NSS Swarm drone** system consists of multiple unmanned aerial vehicles operating collaboratively through advanced algorithms and communication networks to achieve a shared objective. Instead of relying on a single platform, swarm drones coordinate in real time to cover larger areas, adapt to dynamic environments, and maintain mission effectiveness even if individual units fail.

This approach enhances efficiency, scalability, and resilience, making swarm technology suitable for applications such as surveillance, mapping, search and rescue, and environmental monitoring.

DETAILS	PARAMETERS
Wingspan	1,200 mm
Fuselage length	780 mm
Dead weight	4.5 kg
Payload weight	1.5 kg
Maximum Take Off Weight (MTOW)	6 kg
Cruising Speed	30 m/s
Maximum Flight Speed	50 m/s
Flight Time	20 min
Flight Altitude	4,500 m
Flight Distance	10 km (depends on Ground Control Station digitizer)
IP rating	IP56 (Dust and water proof)
Material	Carbon Fiber Composites
Launch Method	Gunpowder/high-pressure gas cartridge
Recovery Method	Parachute

Specifications are subject to change without any notice. | All tolerances are within $\pm 10\%$