



TACTICAL UAVS · TACTICAL ISR UAV, HYBRID VTOL

Pasban H-VTOL

Hybrid-VTOL ISR platform and airborne command node, up to 8 hours on station and 100 km of reach.

MISSION ROLE	RANGE	ENDURANCE	PAYLOAD	LAUNCH	RECOVERY
Persistent ISR / airborne C2 node	100 km	6–8 hrs	AI EO/IR gimbal, 5 km LRF	VTOL, no runway required	VTOL precision landing

SYSTEM OVERVIEW

Pasban H-VTOL is a long-endurance vertical takeoff and landing UAV powered by an advanced hybrid propulsion system, enabling persistent airborne operations exceeding 8 hours and mission coverage extending up to 100 km. Its VTOL capability allows rapid, flexible deployment from confined, unprepared, and remote locations, while its fixed-wing cruise configuration ensures high efficiency for long-range, extended surveillance.

Equipped with an AI-enabled EO/IR optical payload, Pasban H-VTOL functions as an intelligent airborne reconnaissance and command node, autonomously detecting, tracking, classifying, and designating targets. Optimized for networked battlefield operations, it is designed to support and guide Mudamir-series loitering munitions, enabling rapid target handoff, coordinated strike execution, and enhanced mission effectiveness.

TECHNICAL SPECIFICATIONS

Performance

Speed	24 m/s
Range	100 km
Altitude	1,500–2,000 m
Endurance	6–8 hrs
Propulsion	Hybrid (electric + gasoline)

Physical

Wingspan	3.5 m
Length	1.5 m
Weight	30 kg

Payload & Control

Gimbal	30× EO (50 mm) + thermal, 5 km LRF, AI detection
GCS	2 interconnected laptops (drone + gimbal)
Wind / Rain	Level 6 / 6 mm
Temperature	–10 °C to 55 °C

KEY CAPABILITIES

- Hybrid (electric + gasoline) propulsion, 6–8 hr endurance
- AI-enabled EO/IR optical payload, day & night
- Detect, track, classify & designate targets
- Guides Mudamir loitering munitions with rapid target handoff
- ADS-B sensor & Target Trail autonomous tracking
- Networked battlefield command-node operation