



COMBAT COPTERS · FIBER-OPTIC STRIKE DRONE

Shahab-SMF

Jam-resistant fiber-optic strike quadcopter that defeats RF jamming.

MISSION ROLE	RANGE	ENDURANCE	PAYLOAD	LAUNCH	RECOVERY
Counter-EW / urban strike	3–5 km	15 min	2 kg warhead	VTOL	Expendable (terminal engagement)

SYSTEM OVERVIEW

Shahab-SMF is a jam-resistant, wired strike quadcopter equipped with a 2 kg warhead and a range of 3–5 km. Using fiber-optic communication, it bypasses RF jamming for secure operation, and with AI-assisted target detection and locking it guarantees a precise strike.

Integrated AI-assisted target detection and locking enables accurate target acquisition and stable terminal guidance for high-precision strike execution. Combined with a secure communication link and real-time visual feedback, Shahab-SMF delivers consistent engagement accuracy, an effective solution for urban warfare, counter-EW operations, and high-threat tactical environments.

TECHNICAL SPECIFICATIONS

Performance

Range	5 km
Speed	20 m/s
Altitude	200–300 m
Endurance	15 min
Propulsion	Electric
Comm	Fiber-optic cable

Physical & Warhead

Wheelbase	17.0 in
Weight	4.0 kg
Construction	Carbon fiber & reinforced plastic
Warhead	2 kg (user-customizable)

Guidance & Operability

Flight phase	Free flight (FPV)
Targeting	AI dataset target identification
Wind / Rain	Level 4 / 2 mm
Temperature	–10 °C to 60 °C

KEY CAPABILITIES

- Jam-proof fiber-optic control link
- AI-assisted detection & locking
- 2 kg warhead, 3–5 km range
- Secure comms with real-time visual feedback
- Counter-EW / urban-warfare optimized
- Low radar signature