BULLET

BULLET

TECHNOLOGIES FOR ELIMINATING THREATS IN THE SKY AND ON THE GROUND.

The system was developed in accordance with the technical requirements of the Ministry of Defense of Ukraine for interceptor UAVs and strike UAVs.

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The BULLET system is designed to provide reliable protection against modern threats, including strike and reconnaissance UAVs, helicopters, and other low-speed aerial targets. Through the integration of advanced navigation, homing technologies, and high-precision warheads, it ensures effective mission execution under adverse weather conditions and at any time of day

In addition to countering aerial threats, the system is capable of engaging ground targets such as radar systems, air defense units like Buk and S-300/400, vehicles, and strategically important facilities. It offers flexibility in carrying out both economic and strategic missions by distracting, disabling, or destroying enemy systems, as well as enabling hybrid operations.

APPLICATION SCENARIOS

Aerial Targets:

- Low-speed drones such as the "Shahed" type.
- Reconnaissance drones.
- Helicopters.

Maritime targets:

- Flight at minimal altitudes above sea level to avoid radar detection.
- Search, jam, and destroy enemy aviation.
- Jamming of enemy ships by targeting critical systems (radars, weaponry, communication).
- Possible integration with maritime drones for launches from unexpected positions.
- Engaging boats and supply vessels, disrupting logistics.
- Performing hybrid operations (distraction, exhausting enemy air defense systems).

Strategic and Economic Missions:

- Disruption of airfield operations and aircraft carrier launch pads.
- Distraction, detection, and depletion of enemy air defense positions.
- Creating logistical delays.

Ground Targets:

- Radar systems (RLS).
- Air defense systems such as Buk, S-300 (400).
- Rocket launchers.
- Fuel storage facilities.
- Transport vehicles.

Hybrid Operations:

- Combat duty and use of the aircraft as part of a mixed unit.
- Possible operation in conjunction with a solar-powered aircraft — a pseudo-satellite (flight duration — up to 16 hours).
- Capability to install payloads on the aircraft or wings:
  - equipping aircraft with short-range missile systems to increase combat capabilities (for example, striking multiple targets during a single sortie).

Patrolling and protection of strategic objects:

- Monitoring of airspace.
- Control of movement on maritime routes.
- Protection of airfields, radar systems, critical infrastructure, and ammunition depots.

REACTIVE INTERCEPTION

Main capabilities:

Defeating targets in adverse weather conditions and at any time of day.
Range: 100+ km, speed: 400+ km/h, flight time: 30 minutes.
Flight distance: 200 km in one-way missions.
Encryption: AES 128/256.
Warheads: fragmentless, fragmentation, thermobaric, electromagnetic.

- The system is equipped with remote control, autonomous navigation, and homing systems, as well as (upon request) a rocket booster.
- Launch from a pickup (RP), runway, or launch device.
- In case of communication suppression, it uses a combined navigation system with inertial navigation and optical odometry.
- The homing system constantly searches for aerial targets, maneuvers for classification and trajectory determination before attacking.
- If no target is detected, it searches for a priority target in autonomous or manual mode for engagement or self-destructs.

Rapid Deployment from Field Positions

BULLET Launch via Catapult System

The BULLET UAV catapult launcher is designed with real combat experience in mind, enabling aircraft to be launched from positions where runways are unavailable. This provides maximum tactical flexibility — allowing take-off from concealed spots, shelters, or restricted areas. The catapult is codified and officially cleared for operation.

Control is executed via a secure wired system with sealed connectors, resistant to electronic warfare (EW) and radio interference.

The operator can choose between a traditional control panel for simplicity and reliability, or a laptop — allowing both the UAV and catapult to be configured and launched from a single device.

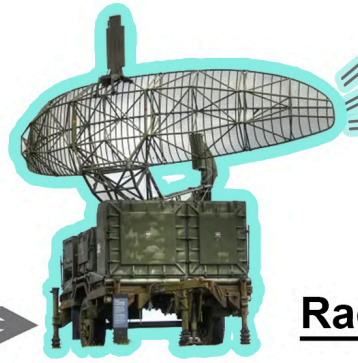
BULLET system operational scheme in air defense

Communication

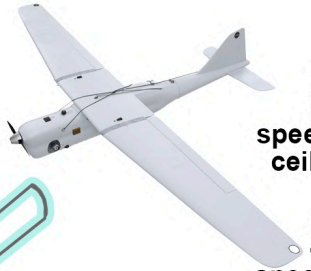
BULLET system

speed of 200-400 km/h.
ceiling of 4500 m

Phase of the enemy's flight.



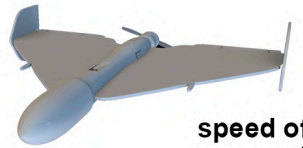
Radar station



Orlan-10
speed of 150 km/h
ceiling of 4500 m

Orlan-30
speed of 150 km/h
ceiling of 4500 m

Orlan-50
speed of 150 km/h
ceiling of 4500 m



Shahed
speed of 140-185 km/h
ceiling of 4500 m

KA - 52
speed of 260-350 km/h

MI - 24
speed of 280-320 km/h
ceiling of 4500 m

BULLET system: Integrated operation

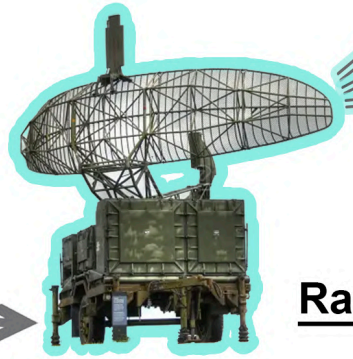
Phase of the enemy's flight

Communication

Monitoring aircraft

BULLET system

speed of 200-400 km/h
ceiling of 4500 m



Radar station

Phase of the enemy's flight

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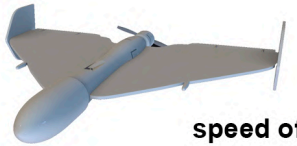

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ground targets, moving
and stationary

TTX BULLET

	02-12 (small plane)	02-23 (big plane)
Takeoff weight	15 kg	32 kg
Warhead payload	1 kg	3-6 kg
Flight range	60 km	200 km
Operational range	30 km	100 km
Maximum flight altitude	4500 m	4500 m
Flight duration	20 min	30 min
Camera	-Optical -Thermal imaging camera	-Optical -Thermal imaging camera
Dimensions: - Length - Wingspan	 1,8 m 1,6 m	 2,3 m 2,0 m
Maximum speed	420 km/h	450 km/h
Cruising speed	300 km/h	320 km/h
Stall speed	108 km/h	108 km/h
Powerplant – turbojet engine thrust	8.6 kg	21 kg
Operating temperature range	-20°C+55°C	-20°C+55°C
Possible powerplant option:	10 kg, 12 kg, 14 kg	24 kg
Installation and integration of missile armament.	-	+

The program enables the deployment of the BILA Bullet into the flight zone of an enemy drone through automatic or manual control.
The UAV is equipped with thermal and optical cameras that provide precise target detection.
Once the target is locked, the system switches to homing mode for effective interception and destruction of the enemy device.

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