



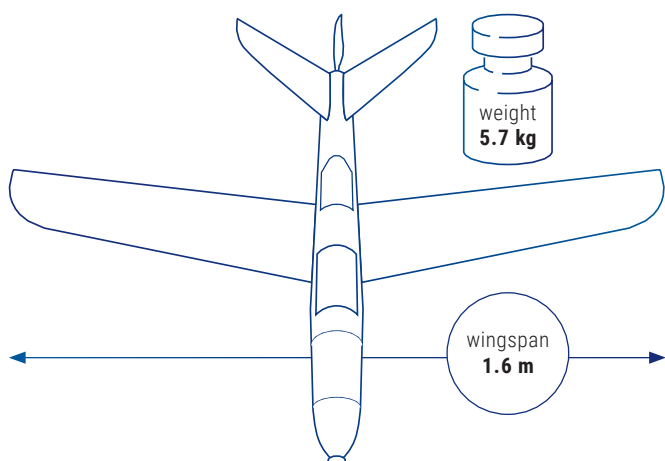
**WB GROUP** 

***WARMATE***

Loitering Munitions System

# WARMATE

Critical intelligence and high precision strike  
with low collateral effect



Maximum take-off weight	<b>5.7 kg</b>
Operational range	<b>30 km</b>
Operational speed	<b>80 km/h</b>
Attack speed	<b>150 km/h</b>
Ceiling	<b>3000 m AMSL</b>
Operational altitude	<b>150 - 300 m AGL</b>
Operational frequency	<b>Military C-band – both uplink and downlink</b>

## Main features



Silent  
propulsion



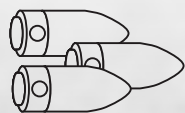
Ruggedized, mobile  
ground control station



SWARM attack  
capability



Flight duration  
max. 60 min.



Interchangeable  
warheads



EO/IR vision for day  
and night operations



Multiple safety  
levels



User-friendly



Multiple flight modes



Flight readiness  
under 5 minutes



Statistically confirmed accuracy  
of targeting – 1.5 m CEP



## Strike

- Fully autonomous attack mode on selected target based on on-board video tracking system.
- Real-time video feed.



## Interchangeable warheads

- Training
- High-explosive
- Thermobaric

## Flight Modes



### AUTO mode

The AV will follow base on pre-programmed waypoints route and flight program.



### HOLD mode

The AV orbits a point over the ground.



### FLY TO mode

The AV will fly to on-map selected point with stable altitude.



### CRUISE mode

Cruise mode will set the AV to hold steady at a particular altitude and flight direction. Operator's control of the AV is semi-manual supported by autopilot in a straight line in the direction that the camera is facing.



### ATTACK mode

This mode initiates the strike. The automated videotracker allows for a precise target hit without the operator's control even after the loss of communication.





## **Ground Control Station**

- light, transported in a single backpack
- ruggedized touch screen tactical computer
- data link – digital, encrypted, bidirectional
- automatic antenna tracker mounted on a tripod
- data link range 30 km
- real-time data can be viewed and modified on the same screen as a map detailing the location, speed, and altitude



## **User-friendly operation**

Operator can easily set and modify flight plans using user-friendly software installed on any type of laptop chosen by the end-user. Real time data from the AV can be viewed and modified.

## **Rapid Deployment**

- The take-off of the WARMATE is fully automated using a lightweight pneumatic catapult launcher.
- The AV is prepared based on series of pre-flight tests to ensure safe communication and proper task realization.

## Training

The WARMATE is a user-friendly system and no prior aviation experience is required. WB GROUP provides a tailored program, which consists of lectures, simulation training, and outdoor flight exercises that introduce students to progressively more difficult navigational tasks and attack scenarios. The training can be carried out in Poland or any other country.

### COMPATIBLE PRODUCTS

ICMS **TOPAZ**

Dismounted Observation & Command  
System **U-GATE**

**FLYEYE** UAV

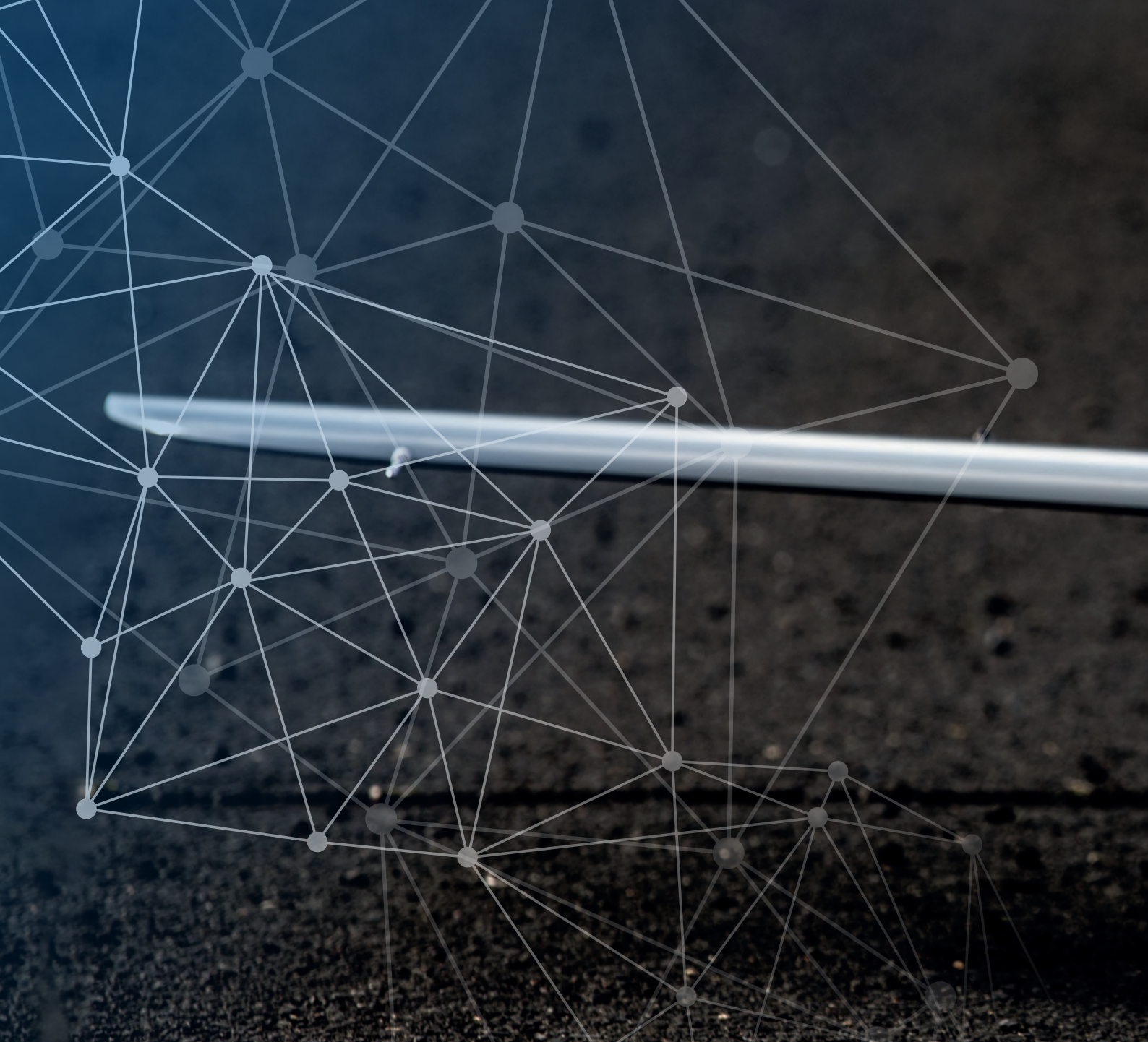
**FONET** Digital Communication Platform

### Technical Data

Maximum take-off weight	5.7 kg
Warhead types	High Explosive / Termobaric
Propulsion	Electric motor
Operational range	30 km
Operational speed	80 km/h
Maximum horizontal speed	120 km/h
Attack speed	150 km/h
Flight duration	max. 60 min
Maximum ceiling	3000 m AMSL
Operational ceiling	150 - 300 m AGL
Operational frequency	Military C-band – both uplink and downlink







[www.wbgroup.pl](http://www.wbgroup.pl)

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