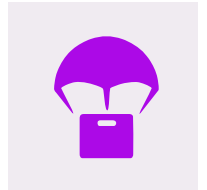


**VACA**  
UAV DELIVERY

CARGO MEDIUM-RANGE UAV

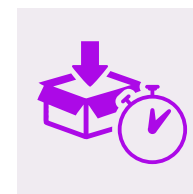
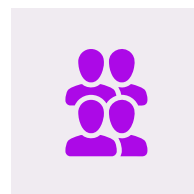
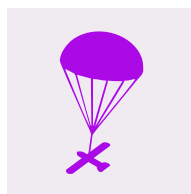
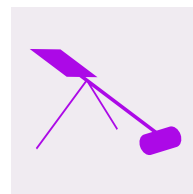
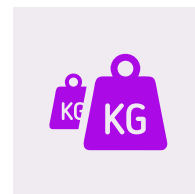
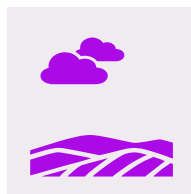
**VACA** is a company, tactical, automated, **cargo UAV complex**, used for delivering cargo and/or conducting attack operations in the area of responsibility of a company or battalion. It is used for:

- delivering **cargo to the friendly units**;
- delivering **cargo to the Resistance forces on the occupied territories**;
- delivering and spreading **PSYOPS materials** (leaflets);
- inflicting **fire damage against personnel, AFV, or fortifications**.

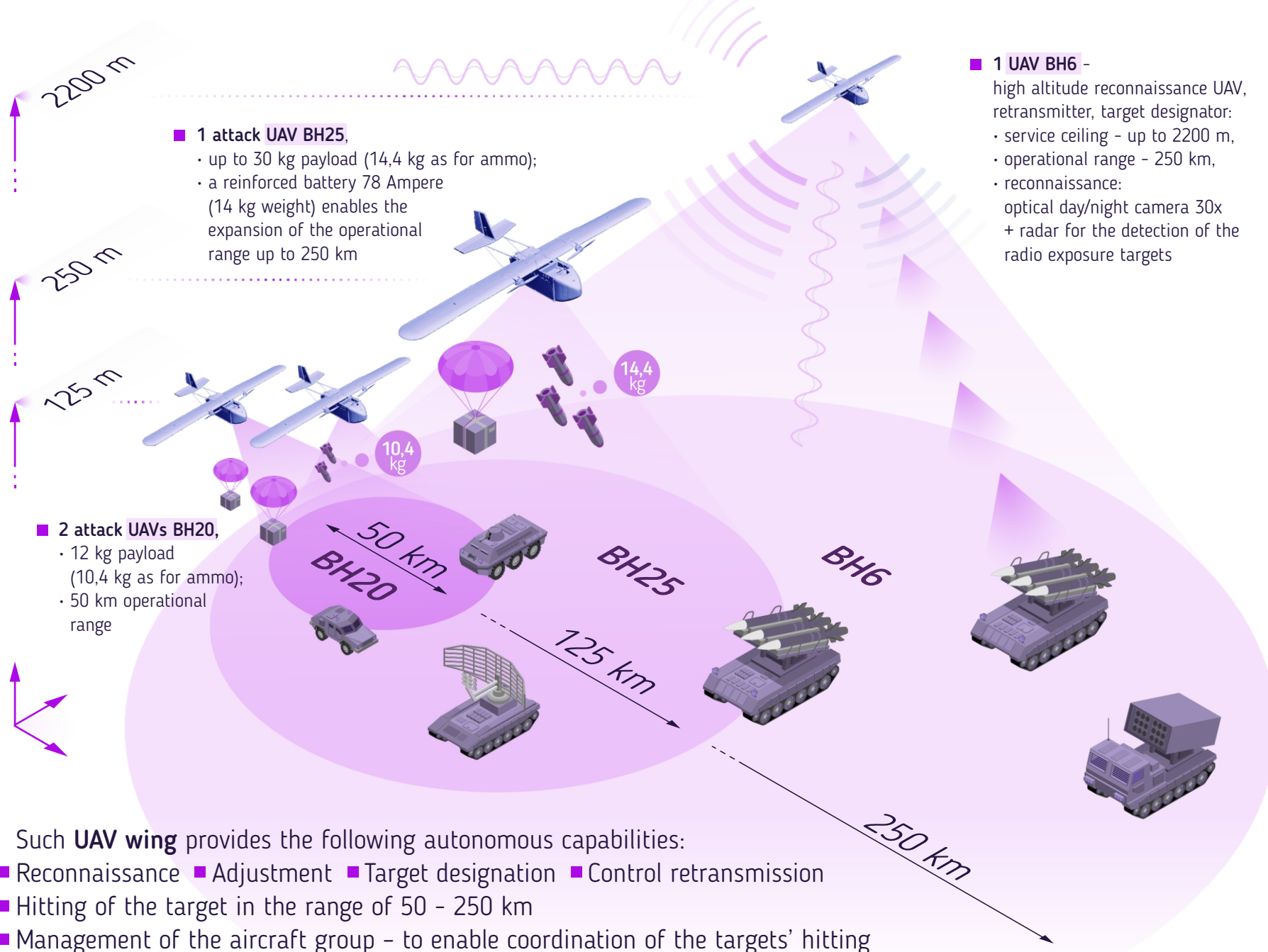


## Technical characteristics of the “VACA” UAV complex:

- Service ceiling:** ■ up to **2200 m**
- Operational range:** ■ up to **125 km**
- Payload options:** ■ from **6** to **25 kg**
- Launch method:** ■ pneumatic **catapult**
- Landing:** ■ automatic/semi-automatic, **parachute**
- The crew:** ■ **4 persons** (2 pilots, 2 technicians)
- Setup time:** ■ **25 min**
- Folding time:** ■ **7 min**

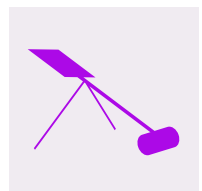
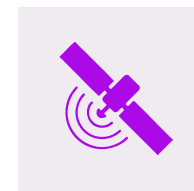
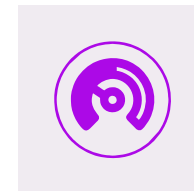
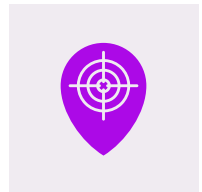


# The concept of the "VACA" UAV wing



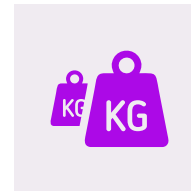
### Equipment:

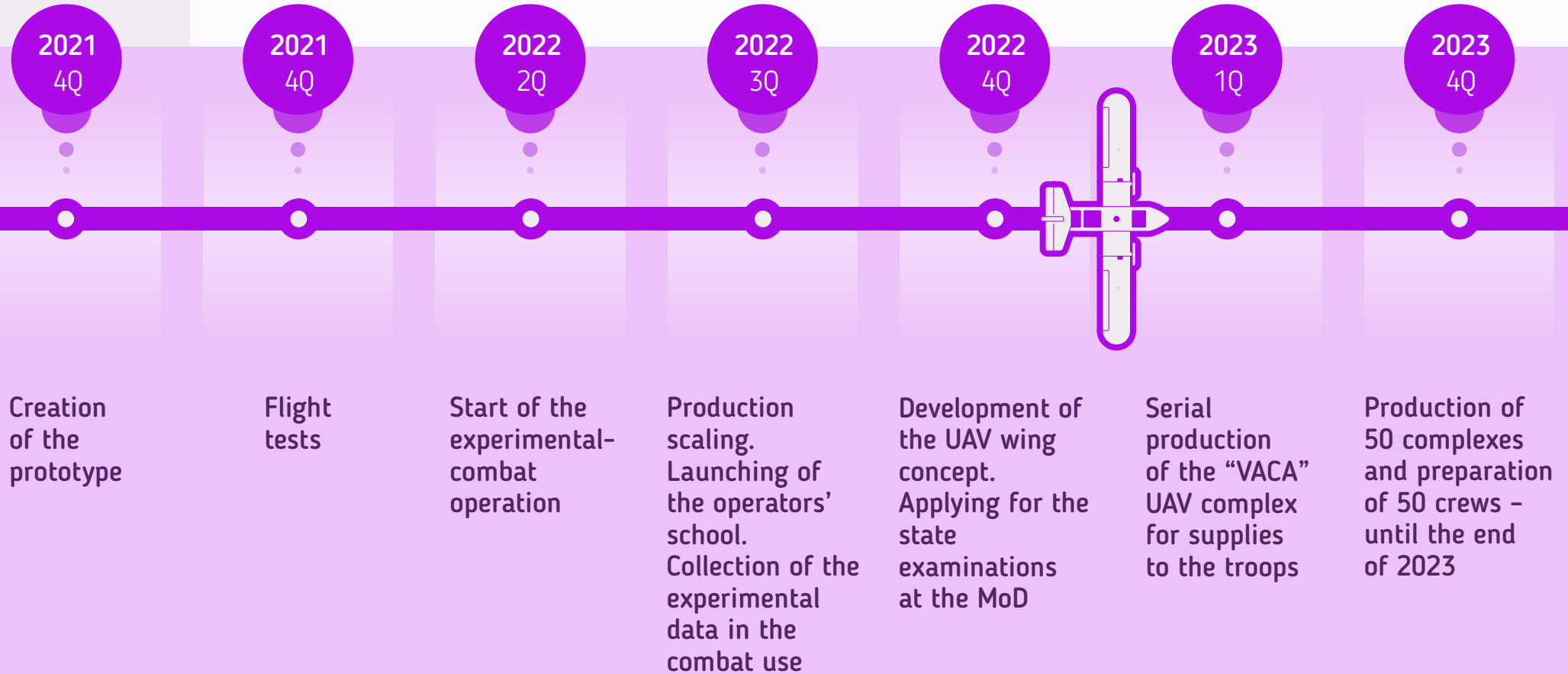
- The surveillance equipment – **thermal camera**
- **Radar-detector** for the automatic guidance of the UAV “VACA” on the EW and SAM exposure (currently under development)
- **Lidar/Sonar**
- **Airspeed sensor (Pito)** with heating – for conduction of the flights at sub-zero temperatures, in icing conditions
- **Ballistic calculator**
- **Barometer**
- **Magnetometer**
- **2 GPS modules** – Drotek, Septentrio
- All models are prepared for launch using **jet starter** (developed and launched in a series)





- Cargos from **5 to 25 kg** per flight
- **standard ammunition**
  - PTAB 2.5 M - cumulative bomb - 2,2 kg,
  - F-1 grenade,
  - 60 mm mine
  - 82 mm mine
  - 120 mm mine
- **self-made explosive materials**
  - fragmentation - 0,8 kg,
  - high-explosive fragmentation - 2,2 kg,
  - FMR - 5,5 kg thermobaric,
  - FMRB - 10,4 kg thermobaric,
  - FMRBA - 10,4 kg high-explosive fragmentation,
  - FMRB - 14,5 kg thermobaric





During the experimental-combat activities, the UAV complex "VACA" has successfully performed more than 30 combat missions as part of the SOF.

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