

Company presentation 2024



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Activities

CUSTOM UAV SYSTEM

DESIGN AND SMALL SERIES
MANUFACTURING

TECHNOLOGICAL AND PROCESSES
INNOVATION

EXPERT **CONSULTANCY**, TECHNOLOGY
IMPLEMENTATION, SUPPORT

INDUSTRIAL SERVICES

SYSTEMS INTEGRATION

R&D&I



About us

- Number of staff 25 (expansion in progress),
- **Highly qualified technical staff,**
- Partnerships with international and domestic component manufacturers and research workshops, experts,
- **References from defense and civilian** fields, several successfully implemented projects,
- Thousands of flight hours with UAV systems we developed,
- Comprehensive **knowledge of the on-board and ground systems used**, at code level,
- Official distributor of several high-quality specialized UAV payloads,
- Excellent relations with the relevant authorities and professional organizations
- Hungarian Drone Coalition, Aeronautical Cluster, National Hydrogen Technology Platform, (Hungarian Defense Industry Association - planned)

CERTIFICATES:

- Aviation Authority Certificates
- ISO 9001 and ISO 14001 certificates
- AQAP 2110 certification
- Military technologies import license
- Certificates for confidential procedures (PSC - „TS", SSC - „R")
- NATO Supplier Certification
- UAS Operation Licenses



Custom drone systems

Comprehensive Service – A unique and nationally recognized package of competencies – professional experience, development of new procedures, system optimization tailored to needs, as well as type certification and licensing processes.

- **Customized Functions:** The use of sensors, cameras, and other equipment precisely tailored to the needs.
- **Optimal Integration:** Seamless integration into existing systems and protocols.
- **Flexibility:** Modular design, which easily adapts to changing user requirements.
- **Safety and Reliability:** Systems designed in accordance with the safety regulations of users, which reduce the risk of malfunctions and accidents.
- **Transparent, clear source codes** (can be made public and auditable if necessary)
- **Long-Term Scalability:** The system can be easily expanded and updated without the need for a complete redesign.

References (defense):

- *Multicopter reconnaissance and mapping systems standardized by the Hungarian Defence Forces (MV03, M6E, Georotor4)*
- *Defence R&D projects (Kóborló, Kolibri)*



SECOP X4

Tethered UAV system

- Static surveillance capability
- 100m hover altitude
- **Continuous operation** (network, generator)
- **Data security**

Specitifications

- 90 minutes endurance
- 5kg payload capability
- Weather resistance IP54
- Range 25km
- Automation (docking station – planned development)



Range of application:

- Reconnaissance, artillery reconnaissance
- Area, object surveillance
- Operation support
- Sensor measurements
- Special transport

Payload:

- Wide range of payloads: stabilized multisensor (EO/IR) cameras, LIDAR, NDVI, RGB sensors, radiation and gas detectors, ...



SECOP X4 mini

Optimized for optical reconnaissance with exceptional flight capabilities, including **long endurance**, high maneuverability, vertical take-off and landing, and **resistance to harsh weather**:

- Precipitation resistance **3mm/h**
- Wind resistance **13 m/s**
- Operating temperature range **-10°C to +45°C**

Specifications:

- Short-range reconnaissance SUAV
- 60 min endurance
- MTOW 6 kg
- Range 7 km or 15 km
- Max altitude AGL 1000 m/AMSL 3500 m
- Weather-resistant, robust design
- Foldable, backpack-transportable design



GigaRotor6

Specifications:

- Heavy-duty hexarotor drone system (max. 12kg payload)
- 25-45 minutes endurance
- IP55 protection
- Range max. 10 km

Payload:

- Wide payload range
- Moving special loads
- Task-optimized payloads

Range of application:

- SIGINT
- Combat logistics
- Lead line pulling
- Other defence, law enforcement applications



FlyRanger5 – VTOL System

Specifications:

- eVTOL system
- Range over 50 km
- 2.5 hours endurance
- 2 kg max payload
- Autonomous flight

Payload options:

- Stabilized Multisensor (EO/IR) camera
- LIDAR
- NDVI
- RGB sensors

Range of application:

- Reconnaissance, combat support
- Artillery support
- Linear facility, object control
- Mapping, aerial documentation
- Aerial repeater - communication range extension



PROTAR F4J

- ✈ **Air Defence Target Aircraft**
(TUAV)
- ✈ **Commercial use:** target service
- ✈ **Loitering ammunition** - further
development potential



PROTAR F4J main features



**combat simulation for
flying and air defense units**



**payloads for
targeting
and evaluation**



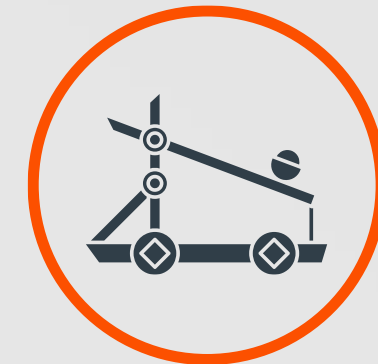
**excellent flight and
operational parameters**



formation flight



**parachute landing
system**



**battery powered
electric catapult**

PROTAR F4J specifications



Speed Range

100-500km/h



Communication Range

75km



Endurance

60min

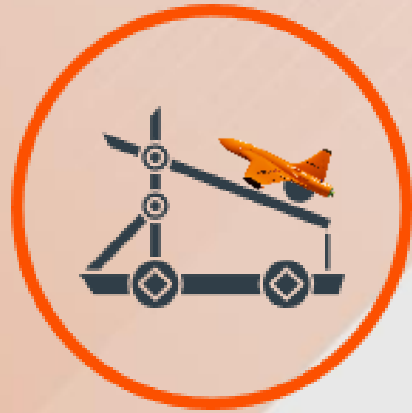


Max altitude

6000m



PROTAR F4J specifications



Launch

Catapult

- **Electric** catapult
- Acceleration **100 km/h**
- Launch turnaround time **2 minutes**
- Customizable
- 360° rotation
- Operational **in all weather conditions**
- Transportation **on trailers**



PROTAR F4J specifications



Recovery

Parachute

I.

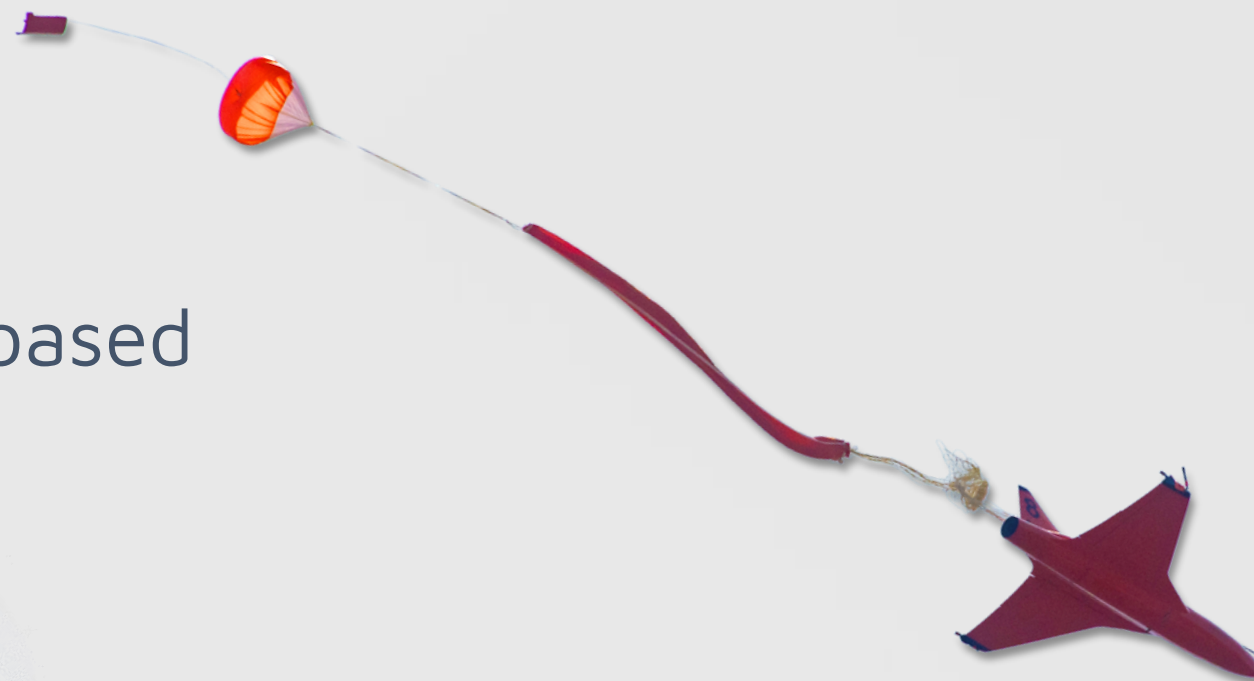
Automatic landing

- 120 km/h
- Approach is calculated based on wind data



II.

Opening



III.

Full bloom

- 5 m/s



GigaRotor6 industrial drone

services

1. RF antenna characteristics measurements:

Benefits:

- **Efficiency:** The aerial measurement system is capable of assessing radiation characteristics and performance within minutes.
- **Accuracy:** The ability to pre-plan and reproduce measurement profiles supports the precise repeatability of measurement processes.
- **Real-Time Data Processing:** Onboard systems and measuring instruments can be remotely controlled, and their data are accessible and processable online at the ground station.
- **Stabilized Measurement:** The two-axis antenna suspension ensures the stabilization and movement of the directed antennas in the air.
- **Compliance:** Tests conducted in the EMC chamber ensure the device's reliability and low electromagnetic emission.

Parameters:

- Endurance: 45 mins
- Range: 15 km
- Payload: 15 kg
- Navigation: RTK
- Radio: 2,4 GHz, 5-80Mbit/s
- IP protection: IP54



GigaRotor6 industrial drone

services

2. Drone based (high voltage) cable stringing:

- Installation of high-voltage power lines and internet cables.
- Suitable for overcoming natural obstacles during construction, maintenance, and renovation works.
- Simplification and acceleration of workflows with the help of drone technology.
- Cost-effective solution, significant savings compared to traditional methods.

Benefits:

- Efficient avoidance of ground obstacles
- Minimization of damage to greenery and compaction
- Rapid task execution
- Low operational costs
- Low occupational safety risks
- Environmentally friendly technology

Parameters:

- Endurance: 40 mins
- Range: 15 km
- Payload: 15 kg
- Navigation: RTK
- Remotely controlled stringing payload
- IP protection: IP54



Thank you for your attention!



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