



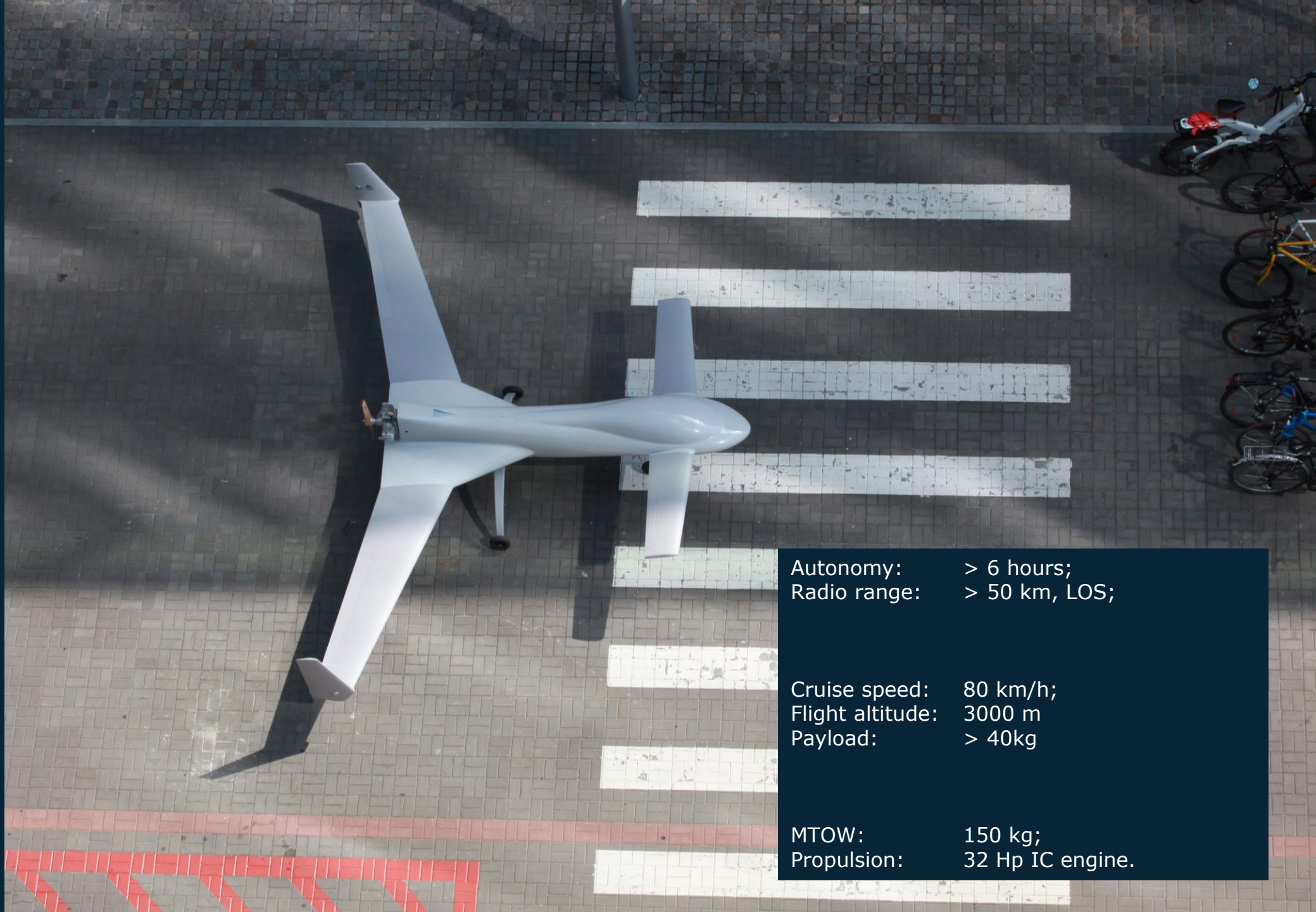
ARKORY
Autonomous Robotics

Signus 150D

**UAS System
for border surveillance**

AUTONOMOUS
FLIGHT TECHNOLOGIES

Signus 150D UAS
AV Specification



Autonomy: > 6 hours;
Radio range: > 50 km, LOS;

Cruise speed: 80 km/h;
Flight altitude: 3000 m
Payload: > 40kg

MTOW: 150 kg;
Propulsion: 32 Hp IC engine.

Signus 150D UAS

System Components



Signus 150D UAS

GCS

Shelter-type concept



The concept is based on MFD (Multi Functional Display) module.

It contains all the necessary capabilities required for managing the entire system:

- AV management;
- Payloads management;
- Communications system management;
- Safety system management.

This module can be organized both as portable stand-alone GCS and as modules inside a command shelter, to perform specific functions.

Thus, it a shelter-type organization, these modules can provide multiple functions for system operators.



Signus 150D UAS

GDT

The Ground Data Terminal (GDT) provides the link between AV and GCS and include the antennae management terminal. It is part of the Data Link system.

The Data Link system includes the Airborne Data Terminal (located onboard the airplane) and the GDT (located on the ground). The GDT is modular. It can be installed on a tripod or on top of a telescopic mast, attached to the shelter.

The Data Link system is used to support the data exchange between the GCS and the AV (both telemetry and video data).

- Communication range more then 50 km LOS;
- Automatic AV tracking, both Pan and Tilt;
- Over-the-flight take over control (remote GDT);
- Remote GCS;
- Easy integration with C2-C4;



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