



SOLAR FLIGHT  
TECHNOLOGY (HAPS)  
ApusDuo ATMOSPHERIC SATELLITE



[www.uavos.com](http://www.uavos.com)







# SPECIFICATION

## SOLAR FLIGHT TECHNOLOGY (HAPS) ApusDuo ATMOSPHERIC SATELLITE

### THE CARRIER ApusDuo IS DESIGNED FOR:

- Video surveillance and monitoring
- Deployment and maintenance of drone communications system
- Provision of broadband wireless access for private and corporate sites
- Jamming
- Radio relay
- Target pointing and designation
- Use as flying R & D laboratory (meteorology, hydrology etc.)

### CONTROL BASICS

Innovative control of extended aspect-ratio flexible wing analyzes the spanwise deformation and adjusts wing geometry to keep lift force at a required level .  
Such a control allows to distribute the load all over the wing, reduce the structure weight and effectively control the aircraft in all flight modes.



FLIGHT PROTOTYPE

Parameters	Data
Wingspan	15 m
Operating temperature	-65...+55
Basing	Airdrome (prepared runway)
Airspeed at sea level	8 m/s
Airspeed at altitude 15000 m	27 m/s
Maximum takeoff mass	43 kg
Takeoff and landing on runway	Fully automatic
Solar cells efficiency	21%
Ground landing means	Not required
Payload	2 kg
Storage	Transport module
Latitude/Light	20°/365 days

**APPLICATION**

Designed for long-time continuous monitoring of the required area on the Earth's surface and real time collection of valuable information in accordance with various consumers' demands.

This vehicle offers exclusive opportunities and can be used both for civil purposes as well as to meet the challenges of defense and security.