

Certificate No. _____ 019 _____

Date: _____

Special permit for Unmanned Aerial System Type,

Valid through August 1, 2007

This is to certify that the Unmanned Aerial System (UAS) of type “Orbiter” is approved as having temporary “Airworthiness”, valid through August 01, 2007.

The system is approved as having **maturity stage status** based on the evaluation performed by the UAV Committee as well as on cumulative past experience; the UAV has already (according to the company’s report) more than 300 flight hours in its present configuration.

This as an exceptional step according to the “Flight approval of unmanned air vehicles” procedure authorized by the Director General of the Ministry of Defense, Head of the Civil Aviation Authority and Director General of the Ministry of Transportation on December 28, 2006.

This certificate allows flying of this unmanned air vehicle provided that an approval is given by the system owners and by the operating company, its technical functionality and flight worthiness is confirmed by an approved technician, it is operated by an approved operator, authorized by the airspace control authority (regional air traffic control unit or control tower, as the case may be), and the flight is operated in accordance with the procedures and the safety concepts, including issuance of a valid third party insurance.

The Airworthiness Certificate is issued for the following system:

Type of air vehicle - ***Orbiter***

Category (fixed wing/ rotating wing/ guided parachute/ guided balloon) - **fixed wing**.

Maximum take-off weight (greater than 2 tons, greater than 200 kg, greater than 15 kg, greater than 1 kg) – **less than 7.5 kg (valid up to 15 kg)**

Operational characteristics (Cargo, LW, W, ISR) – **ISR**.

Maximum cruise altitude – **10,000 feet above sea level**.

Configuration characteristics (endurance /delta etc.) - **endurance**.

Approved payload– **EO of any category (only)**.

Engine – Actro, 70 amps. Max.

Communication, telemetry and video

A. Main: Contact, frequency band S +UHF (Becker)

B. The company must complete the documentation regarding the communication system data as a prerequisite for the prolongation of the permit.

System developer – **“Aeronautics” Ltd.**

System manufacturer – **“Aeronautics” Ltd.**

System operator – **“Aeronautics” Ltd.**

Minimum number of licensed operators – **1 (+ 1 observer during CTR flights performance)**

Ground station – PGCS, computer version GMS for Orbiter. The company must complete the software version data as a prerequisite for the prolongation of the permit

Automatic emergency modes - “Return home” path if communication is lost.

Autonomy level – “Fly to coordinates”, “camera guided flight”, “keep geographic position”, “navigate according to pre-scheduled flight plan”, “knobs control flight”, “roll/ pitch rate, stick control flight”, manual flight operation (Disconnect mode

Take-off – **Catapult**.

Landing – **Parachute + Airbag**.

Support of more than one air vehicle simultaneously – **forbidden**.

Limitations -

1. Flight outside the CTR in Israel civil airspace – forbidden.
2. during CTR flight performance, an observer will maintain a constant eye contact with the vehicle, and will have the ability to activate emergency (recovery) modes.

3. night flight performance will be performed in CTR only.
4. in order to meet the safety criteria, the UAV has a defined effective MTBL of 50 flight hours. This calculation will be modified from time to time as experience and flight time is achieved.

Procedures that must be completed as a prerequisite for the prolongation of the permit validity:

1. specification of ground software, airborne software, and possible combinations.
2. datalink specifications.
3. correction of weather operation limitations

In witness thereof:

Chairman of the UAV Committee

Head of the Civil Aviation Authority

**This document is a translated copy of the original certification. This copy has not been approved by a Notary yet.
The original, hand signed copy, written in the Hebrew language is the only official copy.**