Nearchos

EADS
3 SIGMA

Nearchos

The Nearchos UAV is a high payload capacity, medium range and endurance, multi-role system. It has been used over the past years as a research platform for a variety of projects. More specifically through a close collaboration with the Technical University of Crete (TUC), the National Technical University of Athens (NTUA), and other research organizations, Nearchos UAV system is being used for the development of a collision avoidance as well as for a fire detection system for UAVs. Both promising programs are currently co-funded by the General Secretariat of Research and Technology (GSRT) under the Ministry of Development of Greece.

Nearchos Missions

- Millitary
  - Battlefield surveillance
  - Aerial reconnaissance
  - Target acquisition (detection, identification and lock-on)
  - Damage assessment
  - ESM/ECM
  - Communication data relay
- Civillian
  - Geological and maritime applications
  - Traffic surveillance
  - Localization of polluted areas and natural disaster situations
  - Boundary and forestry patrolling
  - Forest fire detection

Main Characteristics

- Length: 3.95 m
- Wingspan: 5.10 m
- Height: 1.15 m (with landing gear)
  0.52 m (without landing gear)
- Empty weight: 60 kg
- Max. take-off weight: 110 kg with catapult launching
  190 kg with tricycle take-off
- Propulsion unit: 38 bhp
- Operational altitude: 7,000 m
- Operational speed: 75 km/h-220 km/h
- Flight endurance: 8 h-12 h
- Payload capacity: 51 kg-92 kg
  (depending on fuel
  and payload configuration).

EADS 3 SIGMA AE, AERONAUTICAL & ELECTRONIC SYSTEMS, COMMERCIAL & MANUFACTURING

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