AERTEC

RPAS
High grade light RPAS for observation and surveillance

TARSIS
Fixed wing RPAS

The ***TARSIS*** aerial platforms stand out among fixed-wing unmanned aerial vehicles of similar size. The ***TARSIS*** family of RPAS (Remotely Piloted Aerial Systems) developed by **AERTEC** are versatile fixed wing solutions capable of performing different missions with a variety of configurations mainly designed for observation and surveillance. **AERTEC** has currently two operative solutions:

RPAS

	TARSIS 25	TARSIS 75
MTOW	25 kg	75 kg
Maximum payload	5 kg	12 kg
Maximum endurance	8 hours	12 hours
Maximum flight altitude	4 000 MASL	5 000 MASL
Operational video range	40 km / 150 km	70 km / 150 km
Wingspan	4 m	5.2 m

Both solutions are capable of operating in diverse weather conditions.
The platforms are equipped with a primary nominal communications system along with a secondary redundant system. The primary real time video/data link has optional configurations in range (40, 70 and 150 km). The secondary data link connects via satellite, and has an unlimited range. The communication frequency can be adapted to local operating requirements.

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+ Guidance, Navigation and Control System

The Guidance, Navigation and Control (GNC9 System developed by **AERTEC** calculates an optimal trajectory based on a predictive algorithm that takes into account the flight's attitude and direction along with surrounding environment inputs. The Mission System includes an optimal flight trajectory generator based on:

- ¬ Reference point configuration
- ¬ Interpolation of altitude and flight plan patterns
- ¬ Return to base mode options
- ¬ Lineal and helical ascents and descents
- ¬ Orderly planned tasks to perform loiter/contingency/ emergency maneuvers

+ Ground Control System

AERTEC has a proprietary technology GCS that is compatible with any other type of RPA. It allows the development of new dedicated applications as well as it serves as a single interface between operator and system with the corresponding advantages on crew training and formation.

Planning and control of the mission

+ High technology surveillance

AERTEC works with sensors that can be used to develop different types of operations over 24 hours (day/night).

This technology allows clear and stable images to be received, transmitted in real time and with complete pan/tilt movements of up to 120° per second. Real and demonstrable high technology.

For more information, contact us:
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