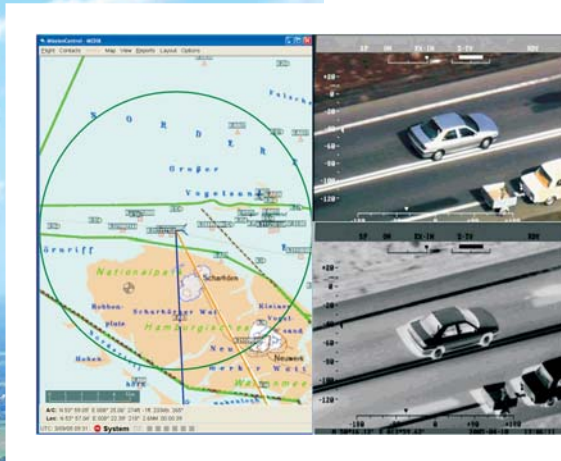


Advanced Mission System for Surveillance Helicopters

Efficient Support for Mission Operators

Aerodata's advanced mission system for police helicopters integrates and combines various sensors and systems e.g.

- Electro-optical system
- Search light
- Direction finding equipment
- Video transmission system
- Navigation and communication equipment



Workstation Mission System for Helicopters, e.g. EC135

The design of the mission system is driven by the weight and space requirements of helicopters. Therefore the functional design is based on a compact LRU design and the idea to minimize the number of LRUs to provide the required functionality.

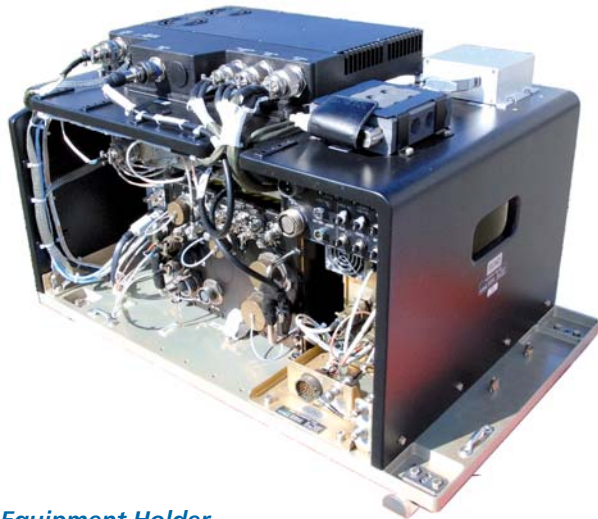
Mission System Software

The system software efficiently supports the operator during all phases of a mission by

- Moving map and sensor display (picture in picture)
- Full control of all sensors
- Complete surveillance information including data bases
- Reporting and communication link capability to ground control
- Flight planning and flight guidance features

Equipment Holder

A separate equipment holder is part of the mission system containing the electronic equipment like the CEU of the EO/IR system or the AIS transponder, if this equipment is not installable at dedicated locations in the helicopter.



*Equipment Holder
Mission System for the German Federal Police*

Technical Data

The table below depicts the typical physical values of workstation and equipment holder.

Item	Workstation	Equipment Holder
Dimension [mm] (HxWxD)	1090 x 826 x 628 (with table)	895 x 475 x 502
Weight	35 kg	52 kg
Power Consumption	5A ±20%	20A ±20%
Temperature Range (operation)	0°C to 55°C	0°C to 55°C

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Detailed System Functionalities

Sensor Data Processing and Display

- Visualisation of the tactical picture based on the sensor inputs
- Moving Map Display with multi-layers for targets, tactical information, etc.
- Creation of multiple sensor tracks
- Data fusion process



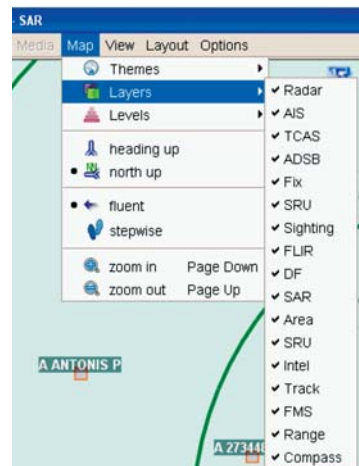
FLIR ellipsoid in the moving map (example)

Data Bases

- User Defined Waypoints
- Navigation Database and Flight plans
- Hospital data and street addresses
- Flight related data

Maps and charts

- Different map types, e.g.
 - Nautical and aeronautical maps
 - Overland/topographic/street maps
 - Satellite maps, Jeppesen charts, En-Route Guides
- Sensor contacts and tracks
- Radar target layer
- Aiming point of turret mounted sensors
- Direction finder bearings layer
- AIS target layer
- Mission planning information
- User defined areas



Example of the map layer selection window