



Team Information

Team RLS

Picture of vehicles:



TROBOT



teleMAX



WIESEL digital operator vehicle



CARACAL



Team Information

Name of vehicles: TROBOT, teleMAX, WIESEL Digital operator vehicle.



Picture of team leader:

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Team Description: The RLS Team is Rheinmetall Landsysteme GmbH's entry into the ELROB2006. The team is mainly composed of employees of Rheinmetall Landsysteme GmbH.

Our vehicles are:

1. The TROBOT (Tactical ROBOT). The TROBOT is based on a Diesel-powered eight wheel commercial off-road vehicle, the ODG Centaur. In cooperation with Robowatch Technologies GmbH it is modified with a drive-by-wire system, Sensors and computers. The vehicle incorporates measurements from a Trimble AGPS 114 DGPS and Tandem Robowatch Gyroscope / Accelerometer as inertial measurement unit. While moving, the environment is perceived through one sick LMS 200 laser scanner, a VEGAPULS 68 K-band radar system, four IFM O1DLF2KG PMD laser sensors, four PIL P43-O4V-2D-1C0-80E Ultrasonic Distance Sensors, a video camera and a BFI LWIR system.



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The vehicle can be fitted with different mission modules as :

- Transportation
- Weapon station
- Reconnaissance
- Radio relay
- NBC-detection

The development of the TROBOT system began in August 2005. At the time the of the initial team application, the vehicle is still under development.

2. The teleMAX. teleMAX is a fully remote controlled vehicle designed for EOD purposes. It has a chassis with four tracks and is powered by a electric drive. The teleMAX has three cameras, two for driving and one on the extendable arm with the gripping device. The vehicle can be controlled via radio or cable. The teleMAX is produced by the company *tele**rob*** Gesellschaft für Fernhantierungstechnik mbH.
3. The WIESEL digital operator vehicle. The WIESEL digital operator vehicle is based on the WIESEL 2 tracked platform. It is fitted with two operator consoles for remote driving and operating robotic vehicles. In the active display session the WIESEL digital will act as a transporter and a radio relay station for the teleMAX vehicle.
4. The CRACAL is a high mobile, armoured 4x4 multi purpose vehicle in the 7t class. It will be shown on the exhibition with an integrated “robot-driver”. The vehicle will be driven via remote control.

Selection of scenario:

urban ___

non-urban X with TROBOT vehicle

EOD/IEDD/UXO ___

Exhibition X with four vehicles, TROBOT, teleMAX, WIESEL digital operator vehicle and CARACAL.