ELROB 2020

17 - 21 August 2020

Trier, Germany

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REAL TASKS, IN A REAL WORLD SCENARIO

Intelligent Reconnaissance and Surveillance

Reconnaissance and surveillance is a key military task. In the given scenario the task for the deployed UGV is

- the approach of an observation point,

- the reconnaissance along the line of movement, during the approach,

- the surveillance of a target area from an observation point.

The task will be done by day.

Environment:

Non-urban area, vegetation, grass, sand, water, stones, bushes, roads and paths. Forest areas consisting of dense woodland and some barracks complete this area.

Situation:

A target area located in up to 1500m (meters) distance has to be approached. There will be dynamic objects and static obstacles on the route. Dead ends, sharp turns, road closures, barricades, barriers or any kind of blockades and narrow passages can occur. Traffic presence on the route is not to be expected but possible because the behavior of hostile or other forces in the field cannot be foreseen.

Objective:

Approach target location with highest autonomy possible. Perform reconnaissance on the way to and at target location. Search for particular markers with special characteristics as defined in the rules. If found, acquire imagery and position of marker and report to control station.

Execution/Implementation:

Approach target location by using given UTM coordinates. Traverse given waypoints (UTM coordinates) on the way to destination. This should be done with maximum autonomy available. If possible, transmit live position and imagery to the control station.

!!! This document is subject to change and refinement !!!

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Timing:

Duration approx. 60 min. The scenario ends with reaching the time limit and must include the transmission of the acquired data.

Constraints:

The troop will receive a section of a digital map with UTM co-ordinates that have to be traversed in the given order; see example in the rules.
The scenario ends
1. after reaching the destination with subsequent monitoring of the target area and transmission of the collected data or
2. when reaching the time limit. (Transmission of the acquired data has to be done before!)

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