Name:
Camp security

Environment:
Enclosed urban and semi-urban area, buildings, infrastructure, vegetation, grass, paths, bushes, roads, paths, fences and rain

Situation:
A defined urban area has to be monitored (think military camp)
The monitoring should be executed without risk to own personnel

Objective:
Detect and report intruders
Pursue intruders
Acquire position and imagery of intruders and transmit to control station

Execution/Implementation:
Setup troop of max 3 people
Move to control station
Setup and Start monitoring equipment
Acquire own position (not known/given)
Monitor area with maximum autonomy available
Search and find intruders
Continuously acquire the position of the intruders
If possible, acquire imagery of intruders in sufficient quality
Report information (imagery and position) to control station
Online visualisation of unmanned systems and possible intruders in a digital map

Timing:
Max: duration approx. 30 min.

Additional task:
An authorized person will enter the area.
When intercepted by the surveillance system the person will halt and show their ID
The ID card has to be photographed and send to control station
This person will be cooperative

Constraints:
There will be an inspection of the area ahead of the trials
Participating teams have to name a technician and two operators
These are the troop
There are only two operators allowed to use the control station at any time
Electricity will only be available at the control station
The setup procedure counts as trial time!
You may encounter rain; be prepared!
There will be six intruders
The movement patterns of the intruders will not likely be cooperative
The troop will receive a digital map at the inspection of the area that will contain a schematic picture containing the static obstacles (see example) and the virtual perimeter (boundaries of the area to patrol) of the camp in UTM co-ordinates.
Medium: Memory-Stick (USB)
The operators can use their systems remote controlled, teleoperated, semi-autonomous or fully autonomous or in any combination of these methods
An intervention of the troop during the trial is not possible / allowed
If the team fails for any reason (think technical) it may use the next open start slot available
There are as many retries possible as there are available start slots

#! UTM (WGS84)
8 Boundary points of virtual perimeter
32U 564462.74m E 5547263.27m N
32U 564376.77m E 5547294.88m N
32U 564418.15m E 5547357.05m N
32U 564482.46m E 5547333.97m N
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32U 564376.77m E 5547294.88m N
32U 564418.15m E 5547357.05m N
32U 564482.46m E 5547333.97m N