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

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. xx 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

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
```

Area Size:
80x80m

Virtual perimeter

Control
station

Start