



COUNTER MOBILITY

Flexnet - Wireless mesh networked Unattended Ground Sensor (UGS) platform

/ CONTEXT

The purpose of counter mobility operations is to disrupt, destroy and control a moving enemy. Exensors' Flexnet system provide an autonomous and wireless network that will detect the threat, identify a moving object, signal a third-party effector for destruction and assess result.

/ SOLUTION



1. If a moving object is approaching the access corridor, the UMRAmiri seismic & acoustic sensor in conjunction with a magnetic sensor will classify the threat and give an early warning to the operator positioned at the Base station.
2. A second UMRAmiri sensor, combined with a Passive infrared sensor and a Scout camera, all positioned in the access corridor, will provide accurate data on the threat's movement and identification.
3. Using this information, the operator can activate a third-party effector and assess the result afterwards with the Scout camera.
4. All parts of the Flexnet sense system are battery driven, wireless and equipped with GPS position. The sensors are communicating together and with a relay station by radio, forming a silent mesh network.

The Flexnet solution is easy to deploy and recover, low weight and with long battery capacity.

/ KEY BENEFITS

- ✓ Remote target area surveillance
- ✓ Threat characterization (quantity, type of movement, direction, recognition, identification)
- ✓ Pattern of life
- ✓ Quick deployment
- ✓ Covert sensors

/ CONCLUSION

Flexnet is a wireless and battery operated surveillance system providing remote detection and identification for a third-party effector system, ideal for counter mobility.

Various trigger systems by intelligent sensors will send data to the base upon unwanted activity at an access corridor.

A variety of cameras can be deployed at various ranges to assess the threat's movement in the controlled area.

The system is easy to set up and use by special units or regular forces.

For other Flexnet use cases or details visit exensor.com