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Microflow AVISA's Acoustic Multi Mission Sensors are used in Africa to protect elephants and rhinos from being poached

Microflow AVISA's Acoustic Multi-Mission Sensors (AMMS) are used by the military in various nations to detect, locate and track all sorts of audible threats such as:

- gunshots
- blasts
- helicopters

Obviously, the primary goal of the company is to provide full and complete acoustic situational awareness to soldiers, protecting their lives.

On the other hand, there are also cases where living species cannot request themselves for acoustic awareness.

Killing elephants and rhinos is regrettably a large business to poachers, their ivory tusks being worth a fortune on the black market.

Microflow AVISA has made a decision to make its technology available at very favorable conditions to anti poaching organizations and law enforcement agencies in Africa.

Poachers normally operate at night with large caliber rifles such as the AK47. They fly helicopters over the game parks to find the animals and sedate them before landing.

Obviously, Microflow AVISA's unattended ground based Acoustic Multi-Mission Sensors can be of use here.

In July 2015, an array of five AMMS sensors was deployed at the Kruger Park in South Africa.

The array, covering a circle with a diameter of 1500 meters is controlled wirelessly by a Command Post.

The helicopter detection and localization capability of the AMMS array may provide rangers an early alert that non cooperative helicopters are in the area.

The gunshot detection and localization capability of the AMMS system will inform rangers that shots have been fired. Most likely too late for the individual animal, the information can be used to locate and arrest the poachers, who might be facing a life time sentence.

In October 2015, a second array was installed at Tsavo National Park, in Kenya.

In 2014, the number of elephants living at Tsavo National Park was 11,076, on a territory which consists of 2,000km² and being guarded by just 100 rangers in the field.

This makes it impossible to cover all the area and provide full supervision and protection of the freely walking elephants in the national park.

An AMMS as an unattended ground sensor detects helicopters at around 20 km distance. A gunshot up to 1,5 km.

Therefore, for wide area coverage, a drone based version of the AMMS, the clip on Acoustic Pointer, has recently been developed, which is a development partially funded by the Dutch Ministry of Defense.

