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RDC Digital Barriers

A wireless perimeter that detects the presence and type of an intruder



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THURAYA

About RDC (remote detection and classification)

Monitoring borders and perimeters in remote areas can be challenging, particularly when there are no people on location. A physical barrier may deter intruders but is rarely impenetrable, and may be impossible or too expensive to erect in situations where rapid deployment and secrecy are essential.

The RDC (remote detection and classification) solution from Digital Barriers and Thuraya enables 24/7 monitoring and detection by rapidly creating a wireless perimeter connected to a Thuraya IP broadband terminal and the Thuraya IP broadband network. Ground sensors are deployable in minutes and will detect any attempt to cross the border by measuring vibration. The solution uses advanced algorithms to detect who or what has crossed – human being, animal or vehicle – and at what point.

How does it work over Thuraya IP broadband terminals?

The compact RDC seismic sensors can be placed easily into the ground along the border or perimeter the user wishes to monitor, and hidden with soil, leaves or other vegetation. Due to the very low power mesh radio network created, the sensors' battery life extends to about four months. A master, or "gateway", sensor connects to one or more Thuraya IP broadband terminals, which send low-bitrate signals via the Thuraya IP broadband network to a central control point anywhere in the world. The solution includes the option of real-time video streaming, which can be set to trigger when the sensors detect an intruder. Communications are two-way, so users can configure the system remotely.



Who uses this solution?

RDC has many potential applications in sectors such as government, enterprise and relief, when organisations need to monitor borders and perimeters in remote locations. The solution is particularly suitable when terrestrial communications are unreliable or unavailable and when a human physical barrier is not an option. It is ideal when the priority is to deploy, or remove, the perimeter rapidly and without attracting attention.

Thuraya broadband terminals certified to work with RDC:

Thuraya IP, Thuraya IP+, Thuraya IP Voyager, Thuraya IP Commander and Thuraya MCD Voyager

Support

For help and support, please contact:
 Thuraya: customer.care@thuraya.com
 Digital Barriers: info@digitalbarriers.com