

BORDER SECURITY MONITORING

PASSIVE RF SURVEILLANCE



Offshore infrastructure & maritime security (Nigeria) simulation

Off the Nigerian coast, surveillance needs incorporate three elements – oil and gas infrastructure protection, maritime / USV security and smuggling. In this simulation, passive RF technology is used to protect critical oil and gas infrastructure from piracy and RF monitoring and signal geolocation enables a rapid operational response by combined border and security resources.

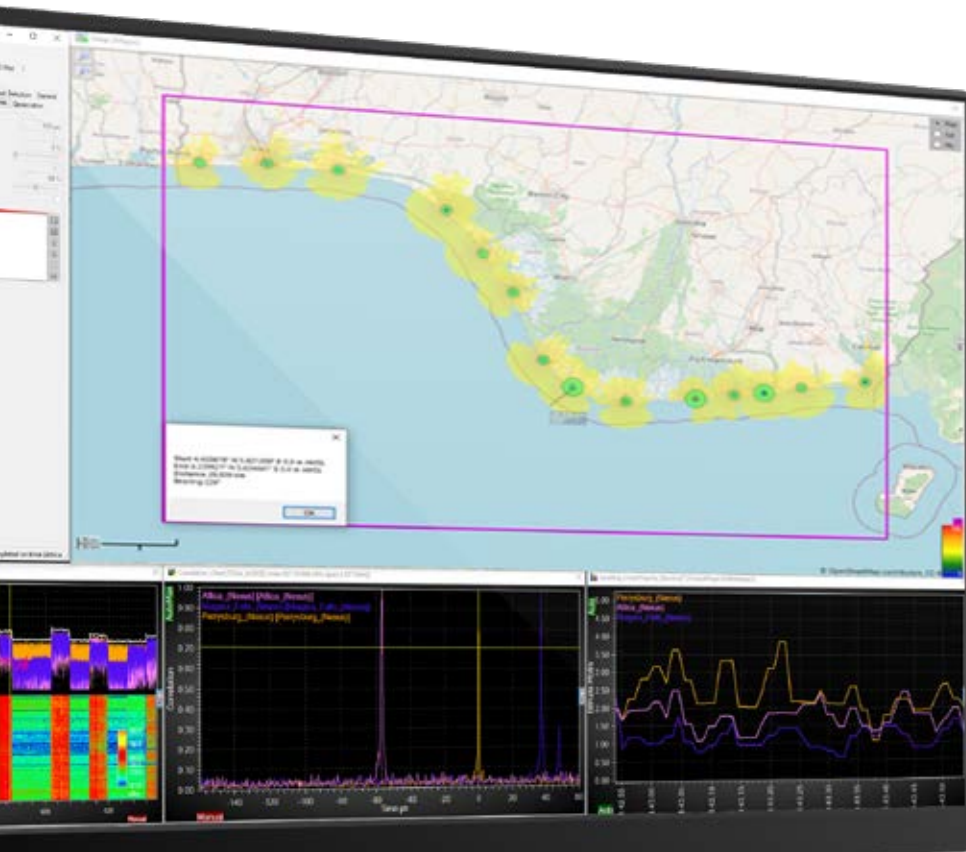
SIMULATED ENVIRONMENT:

Using RFeye SITE v1.51.2, we show a line-of-sight solution offering 30km RF surveillance 24/7/365.



AT A GLANCE:

- Hostile neighbours
- Port protection
- Illegal migrants
- Smuggling
- Transnational criminals
- Coastal surveillance
- Multi-domain



14 RFeye Arrays have been deployed on 15m tower (masts) based on geometry. The simulation shows RF Propagation Analysis with SOI running at 400 MHz with a power level of 44 dB at a roaming height of 10m. This can be changed.

- 30km line of sight to sea
- Surveillance and C2 solution for PMR, drone and USV threats, and smuggling

EQUIPMENT USED



RFeye® Array

Direction finding from
20MHz to 40GHz



RFeye® Site

Real-time spectrum monitoring
& geolocation toolkit



RFeye® Mission Manager

Automated spectrum monitoring
& mission management

CRFS is an RF technology specialist for the defense industry, national security agencies, and systems integration partners. We provide advanced capabilities for real-time spectrum monitoring, situational awareness, and electronic warfare support to help our customers understand and exploit the electromagnetic environment.

