

BORDER SECURITY MONITORING

PASSIVE RF SURVEILLANCE



Port security (Port of Koper, Slovenia) simulation

RF monitoring for maritime security and port protection is essential to secure and monitor coastal installations. Modern-day solutions require extended sensor coverage and surveillance capability, communications, command, and control and co-ordinated support across border forces.

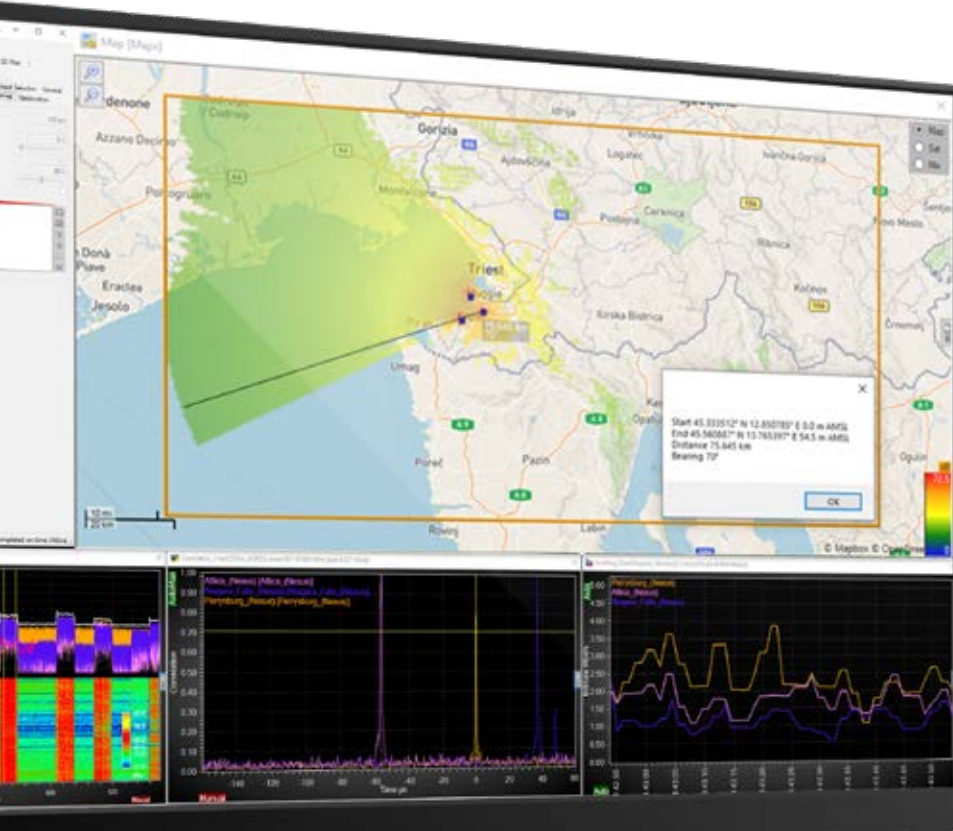
Maritime vessels automatically transmit AIS signals broadcasting position, course and speed.

ANGLE OF ARRIVAL (AOA) SIMULATED ENVIRONMENT:

Using RFeye SITE v1.51.2, we show how the Port of Koper in Slovenia, the largest cargo port in the North Adriatic Sea, can be protected through RF surveillance.

AT A GLANCE:

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

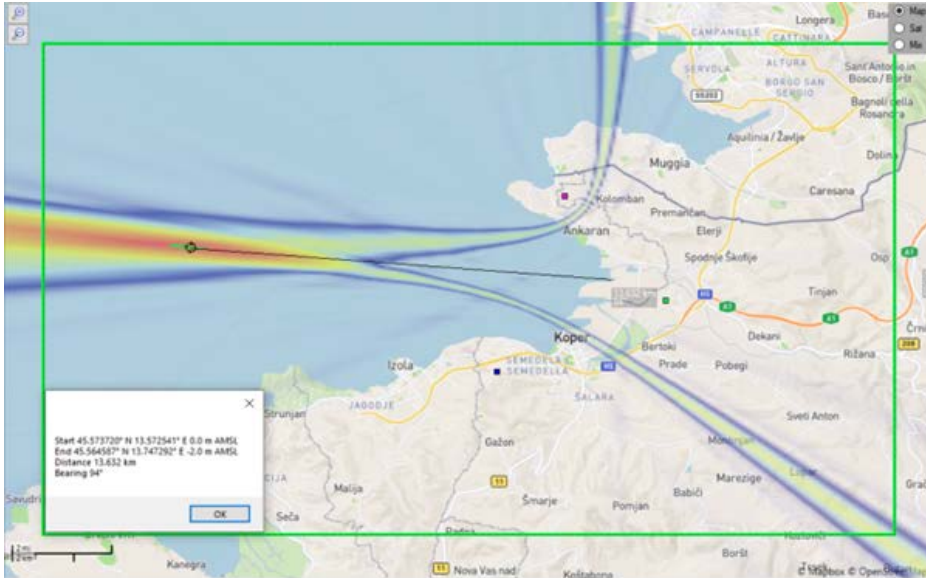


Three RFeye Arrays have been deployed on 25m tower (masts) based on geometry. The simulation shows RF Propagation Analysis with SOI running at 1.162GHz with a power level of 30dB at a height of 10m.

- 75KM range
- Monitor USVs and shipping
- Monitor PMR
- Range and frequency can be altered

TIME DIFFERENCE ON ARRIVAL (TDOA)

Using RFeye SITE v1.51.2, 2D TDOA mission, you can geolocate a simulated AIS signal at over 13KM from Koper Terminal 2 Car Terminal with an accuracy of approximately 121 metres.



AT A GLANCE:

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- Geolocation
- Target threat identification
- C2

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.



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