SEAMOTION

SEAMOTION is a high-performance software that simulates maritime operations from a 3D scene with multispectral rendering capabilities (Visible, EO, EM).

MARITIME SCENES SIMULATION:

The surveillance of maritime borders has become a major defence and national security challenge. Surveillance, observation or identification systems are used to detect, track and recognize increasingly stealthy threats in environments of increasing complexity.

The development of such systems requires large amounts of observation data representative of the marine environment. In contrast with the high cost, variability and complexity of tests at sea, digital simulation offers a flexible, interactive and less expensive alternative.
SEAMOTION IS AN OFF-THE-SHELF PRODUCT WHICH CAN BE CUSTOM-DEVELOPED:

- **Optimization of observations systems**
- **Training tool for maritime applications**
- **Marketing support for the sale of observation systems**

**ANIMATED 3D ENVIRONMENT**
- Sea surface & coasts
- Objects (aircrafts, infrastructures...)
- Sea states from 1 to 6 (Beaufort scale)
- Large scale environments, up to 60 x 60 kms
- Ships dynamics, correlated with sea surface
- Wakes modelling
- Cloud cover and lighting
- Atmospheric propagation

**MULTISPECTRAL SIMULATION (EO/IR/EM)**
- Simultaneous simulation of visible, IR and EM sensors based on the same scenario
- Interface with RADTHERM software from Thermo Analytics for the thermal signature
- Interface with MOCEM software from Scalian for the EM signature

**ADVANCED GUI**
- Interactive edition of sea states and weather conditions
- Sensors and objects creation, edition and behaviour (trajectories)
- User defined models import (aircrafts, ships...)
- Real-time scenario editing and preview
- Fast data production
- Software Development Kit

**USED & VALIDATED BY EXPERTS:**
Ifremer, Thales Airborne Systems, Thales Optronique, Telecom Bretagne, Artal Technologies

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