



# SE-Workbench-SAR: Synthetic Aperture Radar software package description

The SE-Workbench-SAR solution allows the experimented users to compute the SAR data with the advanced technology of the OKTAL-SE software.

Import capabilities are provided in order to work on existing 3D terrain databases or 3D objects (geometry & texture). A plug-in to 3DSmax™ and SketchUp™ is delivered. Advanced functions are provided to work on 3D objects and to enhance the database of physical materials.

SE-Workbench-SAR includes an airport 3D database, a sample of rural terrain, 3D objects samples, a set of physical materials, the User Manuals, the format documentation and a full description of the implemented Physical Models.

SE-RAY-SAR is an easy user interface that loads the scenario created by SE-SCENARIO and computes (in GP-GPU) reflectivity raw data from which SAR raw data can be easily deduced (tutorial included). Images of the reflectivity maps can also be generated and visualized as basic scene evaluations.

SE-Workbench-SAR solution is delivered for  (Windows™) operating system (also compatible with Linux system ) in its English version. A USB dongle controls the license.

The SE-Workbench-SAR solution can be covered by a support and maintenance contract.

## SE-Workbench-SAR

### Synthetic environment modeling:

Import capability:

**SE-FFT**

**SE-PHYSICAL-EDITOR**

*+library of RF physical materials*

*+library of RF generic textures*

*Airport and sample of rural database*

*samples of 3D objects*

3D terrain:

3D objects:

### Integration and signal rendering:

Scenario edition:

SAR computation:

Target analysis:

**SE-SCENARIO**

**SE-RAY-SAR**

**SE-RAY-NBSAR**

### Documentation:

Software:

User Manuals

Format description

Integration developer manual

Physical Models:

Physical Models documentation

Validation Dossier documentation

Tutorials:

SE-TOOLKIT tutorials

SAR process tutorials