# SE-FAST-IG: Image Generator package description

SE-FAST-IG is a real-time image generator (IG) application designed to compute high realism images on PCs for visible, infrared (IR) and Night Vision Goggle (NVG) simulations. SE-FAST-IG provides visualization at 60 Hz frame rate of geographically expansive and detailed 3D virtual worlds, dynamic moving models, weather conditions and special effects.

SE-FAST-IG is dedicated to Real Time Simulation. More precisely. It mainly concerns "Man in the Loop" situation.

SE-FAST-IG can address multiple synchronized channels for both wide field of view simulation and multi sensors displays. SE-FAST-IG relies on an interface to handle network messages, compliant with the CIGI standard, from a host computer. This interface enables a simulation host to control a large set of Image Generators.

SE-FAST-IG is an executable-ready render engine that does not require compilation. A set of configuration files provides the ability to control the basic behavior of the application components.

SE-FAST-IG relies on SE-FAST-IR and SE_IR_SENSOR which ensures physical realism.

SE-FAST-IG includes a complete 3D airport virtual mock-up.

The SE-FAST-IG solution is delivered for (Windows™) operating system in its English version. A USB dongle controls the license.

The SE-FAST-IG solution can be covered by a support and maintenance contract.

## SE-FAST-IG

**3D Synthetic environment:**

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|---|---|
| 3D database: | SE-AIRPORT-DB |
| | *+ library of atmospheric files* |
| | *+ library of thermal files* |
| | *+ configuration files* |
| 3D objects: | *Samples of 3D objects* |

**Image Generator:**

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|---|---|
| Rendering core: | SE-FAST-IG |
| Preview: | SE-FAST-VIEWER |
| Network communication: | CIGI interface |

**Documentation:**

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|---|---|
| Software: | User Manual SE-FAST-IG |
| | User Manual SE-FAST-VIEWER |
| | CIGI reference manual |
| Tutorials: | SE-FAST-IG tutorials |