Full Function, Real Time, Fast & Easy Virtual Environment Preparation and Visualization for Simulation, Simulator & Stimulator Systems

3D Image Generator Product Family

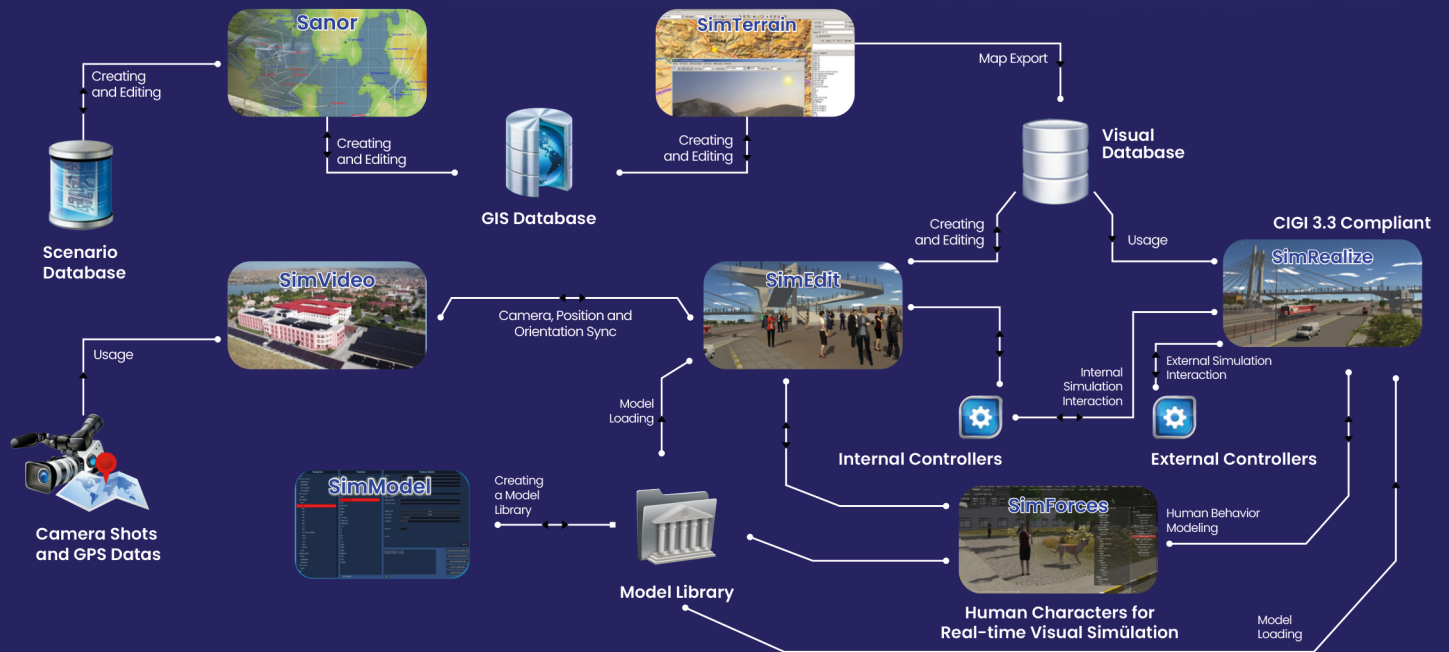| SimCBS | SimGen | SimSymbology | SimAstronomy | SimMeteorology | SimAI | SimExecute | SimVisualize | SimHolo |

SimWorld – API

Sanor

SimTerrain

Map Export

Creating and Editing

Creating and Editing

Creating and Editing

Visual Database

GIS Database

CIGI 3.3 Compliant

Creating and Editing

Usage

SimRealize

Scenario Database

SimVideo

SimEdit

Creating and Editing

Camera, Position and Orientation Sync

External Simulation Interaction

Usage

Internal Simulation Interaction

Model Loading

Internal Controllers

External Controllers

Camera Shots and GPS Datas

SimModel

Creating a Model Library

Human Behavior Modeling

SimForces

Model Library

Model Loading

Human Characters for Real-time Visual Simülation

- SimBT's Image Generator Product Family consists of eight indigenous and unique products that work integrated to each other.

- These products have been used and continued to be used in various simulations, simulators, stimulators, platform and system application projects since 2009.

- With this product family, it is possible to manage large area data, high-performance display and simulation management and prepare fast and easy full function 3D simulation display engine.

- SimBT's image generator has a high drawing speed with low CPU and memory usage.

Better Planning for Better Performance,
Better Specifier for Better Acquisition,
Better Simulation & Simulator for Better Specifier

Simulation and GIS Development Component: SimWorld

SimWorld is an infrastructure library and application development interface (API) component with over 525.000 lines of code used in many simulation, simulator & stimulator projects. This component includes; geographic information system, generic map production, tactical symbology and graphics that are 100% compatible with military standards, astronomy and meteorology calculations, detection algorithms and artificial intelligence engine, scenario preparation and running within recording and replay, 2D map and 3D environment display and holographic display infrastructures.

Virtual Environment Development System: SANOR

SANOR is our simulation development system with scenario preparation, scenario running, harness recording and replay, reporting and software add-ons and customization infrastructures developed using SimWorld API.

GIS Database Creator : SimTerrain

SimTerrain is an original and indigenous product developed to prepare the terrain data required for the preparation of 3D virtual environments with our visual database generator SimEdit with the support of SimWorld. With SimTerrain, you can load data in different map formats to be used in your projects and products and integrate these data to create a single geographic information system database. Then, by transferring this integrated data to SimEdit, a visual database preparation tool, you can easily and quickly manipulate natural and artificial objects such as vegetation, buildings, bridges and roads.

Model Library: SimModel

SimModel is the model library required in our simulation and simulator systems. This library includes over 2.750 land, air, underwater and above ground models.

With our Image Generator Product Family, It Is Possible to make Simulations, Simulators, Stimulators and Wide Area Data Management and to Prepare Virtual Environments Faster and Easier!
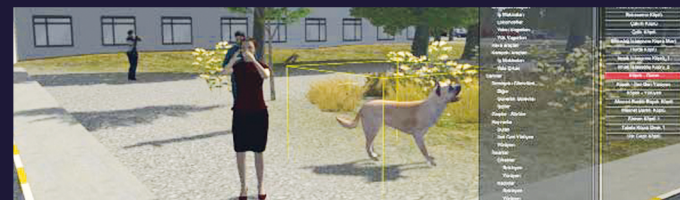
3D Visual Database Creator : SimEdit

SimEdit is our visual database preparation product that answers your most basic and most complex 3D virtual environment preparation needs. With this product, you can easily and quickly create any 3D content, digital terrain (including land, surface and underwater) and 3D visual database with mouse interaction, and you can prepare your simulations and simulators by transferring the data to our

GPS Integrated Video Viewer : SimVideo

SimVideo is developed in order to play the 3D virtual environment which is developed/will be developed using GPS integrated video camera footage, synchronously and simultaneously with each other in terms of camera position and orientation. While the displayed video frames are projected onto the screen, the position and orientation information mapped to the image is transferred to our visual database generator SimEdit in parallel, allowing the virtual environment to be displayed in the same position and orientation on the side screen, so that the details seen can be processed realistically into the virtual environment to be modeled.

Human Characters for Real-time Visual Simulation : SimForces

SimForces is a software development toolkit for adding life-like people and animals to real-time visual simulations.

3D Image Generator :SimRealize

SimRealize is our CIGI 3.3 compliant original and indigenous image generator that allows you to create virtual environments from the simplest to the most complex, and quickly develop your simulation/simulator systems. SimRealize offers very realistic and high quality 3D graphics and sound infrastructure, even with low-cost PCs and graphics cards.