



## DISI<sup>®</sup>-XTREME

### A NEW DIMENSION IN IMAGE FIDELITY

DISI-Xtreme consistently combines special features for ground simulation, flight simulation, maritime simulation and procedure training. Whether breathtaking cloud formations, endless single tree forests and wheat fields or fully deterministically modeled 3D oceans including seamless subsurface transition – there are almost no limits.

#### HIGHLIGHTS

- Fully deterministic visual system for real-time generation on commodity hardware for ground, flight and ship simulations.
- High-end environmental simulation, e.g. physically based sky system with atmospheric scattering, astronomically accurate stars, correct time and geo-specific sun and moon.
- Also, dynamic 3D clouds, local weather areas, dynamic rain and snow including realistic snow cover, e.g., taking into account overhangs and bridges.
- A single database can support multiple sensors (instant switching between sensors in real time).



## FUNCTIONAL AREA

### Dynamic Environment:

- IG simulated physical vehicle model.
- Dynamic tracks and ground-dependent dust clouds.  
Advanced animation system for complex animations.
- Powerful 3D model features based on hierarchies and functional components.
- Flow-based simulation of helicopter downdrafts.  
Deterministic online computed ocean wave model with

swell, directional wave crests and local wave regions.  
Simulation of 3D bow waves, underwater thrusters,  
model-dependent wake.

- Complex nautical light generation.
- Writing on texture (e.g. for ship names, tactical signs or license plates).



## MAIN FEATURES OF DISI-XTREME DBGS

- Support of geospecific, geotype and generic databases.
- Support for CDB and OpenFlight.
- Fast database design and creation (multi-core support).
- One toolset for creating flight, nautical, ground and driving simulator databases.
- Supports creation of databases for huge terrains.
- Highly detailed and realistic scenarios for driving simulations.
- Wizards for generating airports, buildings and road networks.
- Import of industry standard GIS data (elevation, vector and raster data formats).
- Offline optimization of databases to increase IG performance.
- Open architecture with export for various target systems.

