



# MILITARY VEHICLE SIMULATOR

## REALISTIC & HIGH FIDELITY TRAINING

Simsoft can produce vehicle simulators from wheeled vehicles to heavy tracked vehicles

### Tracked Vehicles

- Tank
- Artillery Gun
- Armored Personnel Carrier
- Construction Equipment

### Wheeled Vehicles

- Shortland
- Cobra
- Panzer
- Lorry/Truck
- Armored Vehicles



# MILITARY VEHICLE SIMULATOR



## Visualization (Image Generator)

- Up to 6 channel with single system
- Weather effects (Rain, snow, fog)
- Thermal and IR/FLIR camera visualization
- Multiple mirror visualization
- Explosion/Smoke/Fire visualization



## Artificial Intelligence

- Realistic behaviour of civilian vehicles, pedestrians, motorcycles, etc.
- Realistic behaviour of terrorist on different terrain conditions
  - Rocket usage
  - Grenade usage
  - Remote controlled bomb usage
- Behaviour configuration
  - Traffic rule violation ratios
  - Lane change behaviours
- Script based behaviour description
  - Event trigger definition
- Custom behavioural state diagram description with XML and scripts



## Scenario Creation & Management

- 2B map tactical display
- 3B visual display
- Free form view to scene
- Attach a specific object
- Add/Remove simulation objects to scenario
- State diagram editing for each object
- Behaviour script editing
- Dynamic loading of different scenarios
- Saving current scenario status
- Load, play, pause simulation objects to scenario
  - Add/Remove simulation objects to scenario
  - Give commands (stop, start, follow path, etc.) to scene object
  - Instructor controlling of user controlled or AI objects



# MILITARY VEHICLE SIMULATOR

## High Fidelity Vehicle Dynamic

- Vehicle properties
- Gears
- Gear ratios
- Motor power
- PRM-Torque curve

## Debriefing and Analyses

- Vectorial recording and playback of all events
- Record/Playback of visuals, sounds
- Motion platform data
- Automatic tagging
- Manuel tagging
- Replay individual or all tags
  - Free form view to scene
  - Attach a specific object

[www.simsoft.com.tr](http://www.simsoft.com.tr)

## Hardware Specification

- Real vehicle instrumentation
- Usage of real gear, throttle, clutch, break controls
- Usage of real dashboard with all displays
- Mocap cabin
- Special Input/Output sensors usage
- Ergonomic instructor console

## Hardware Specification

- 2DOF, 3DOF and 6DOF motion platform integration
- Realistic motion simulation
  - Slopes
  - Breaks
  - Acceleration
  - Crash
- Active motion platform during replay





MDRV-EN-2108-101



P: +90 (850) 840 00 46  
F: +90 (312) 210 00 47  
[www.simsoft.com.tr](http://www.simsoft.com.tr)  
[info@simsoft.com.tr](mailto:info@simsoft.com.tr)

**HEADQUARTER**  
ODTÜ Teknokent SATGEB Bölge,  
Ortak Bina 1. Kat AR-GE Ofisi  
**ANKARA, TURKEY**

**YENİMAHALLE**  
TİMKO Test and Integration Center  
Çamlıca Mahallesi, Anadolu Bulvarı  
P Blok No: 8 **ANKARA, TURKEY**

**BİLKENT**  
Ankara Teknoloji Geliştirme Bölgesi  
Cyberpark, Cyberplaza A Blok 5.Kat  
**ANKARA, TURKEY**

**İSTANBUL**  
Teknopark İstanbul Sanayi Mah.  
Teknopark Bulvarı No: 1/3A 208  
**İSTANBUL, TURKEY**

**HACETTEPE**  
Üniversiteler Mah. Hacettepe Üniversitesi  
Teknokent 6. AR-GE F Blok 8.Kat  
**ANKARA, TURKEY**

**USA FLORIDA**  
Simsoft Technologies 4250  
Alafaya Trail Ste 212-148 **USA**  
E-Mail : [info@simsofttech.com](mailto:info@simsofttech.com)