Parachute training systems
High-performance product for the entire spectrum of parachute operations training

Product
The Parachute Simulator SOKOL is a high-performance e.sigma product for the entire spectrum of parachute operations training, from beginners to advanced jumpers, and all-encompassing functionalities of a jump including HALO and HAHO jumps.

It was specially developed for the multistage and holistic training of parachute jumpers from beginners right down to paratroopers, special forces and amphibian troops. All functionalities were developed in cooperation with professional jumpers with a specific focus on all needs of the advanced training requirements of Special Forces and other parachute jumpers.

Consumer Benefits
- Calibration-free setup
- Basic Free Fall and Static Line Training
- High Altitude – Low Opening (HALO) Missions/Operations
- High Altitude – High Opening (HAHO) Missions/Operations
- Realistic horizontal freefall position with simulation of the drogue-chute either manually or automatically deployed
- Navigation in visible terrain under open canopy without using navigation aids
- Practicing maneuvers in stress situations including avoidance of canopy collision
- Acquiring and identifying stationary and moving ground features at typical ranges
- Acquiring and identifying features on water at typical ranges
- Acquiring and identifying features in the air at typical ranges
- Executing landing procedures
Technical Features

- Realistic suspension of the parachutist in a harness
- Suspended weight up to 300Kg including additional equipment
- Robust steel superstructure with adjustable height
- High resolution stereoscopic helmet mounted display with calibration-free head sensor
- Various photo-realistic 3D databases, models and environmental effects with accurate representation of landing zones
- Wireless sensors for free fall steering and canopy control functions
- Motorized force feedback system for all suspension and steering lines
- Equipment configurations:
  - Basic: Headgear, Field Uniform
  - Special: Helmet, Navigation Electronics, Harness
- Vertical axis rotation simulation during freefall phase
- Ripcord Deployment
- Hand Deployment
- Static Line Deployment
- CYPRES Activated Deployment
- Realistic canopy opening with parachute dependent force feedback
- Realistic suspension during canopy ride with force feedback
- Altimeter, Compass and Garmin etc. GPS electronics simulation
- Simulation of parachute, GQ5000, SMM 420, TW7 and others
- Recording and playback of the simulation for briefing/debriefing