Ability Screening Systems

Solutions for Psychological Based Applicant Screening

e.sigma offers a generic approach to provide psychology-approved test scenarios. The qualification screening system assists the selection of candidates in their ability of spacial orientation, multitasking, prioritization and awareness capabilities. The approach is scalable from a flexibly configurable single/ multiple choice computer-assisted test framework up to a realistic cockpit-based flight scenario evaluation. The system allows psychologists and trainers to define and integrate their own demonstration, training and test scenarios. The integrated assessment software allows a full data driven statistical evaluation approach applying normed distributions to all generated values for an objective evaluation.

Operational Benefits

- Single/cooperative test modes for multiple student interaction
- General qualifying examination
- Adaption and customization of evaluation process
- Evaluation of individual UAV skills for pilot/ navigator/payload position
- Communication between applicants and flight-psychologist
- Expandable and flexible database

- Configurable reports for objective candidate assessment
- Extensive functionalities for debriefing and monitoring
- Ability tests for different applicant assessments
- Justiciable training procedures
- High flexibility in test scenario generation
- Realistic cockpit-environment
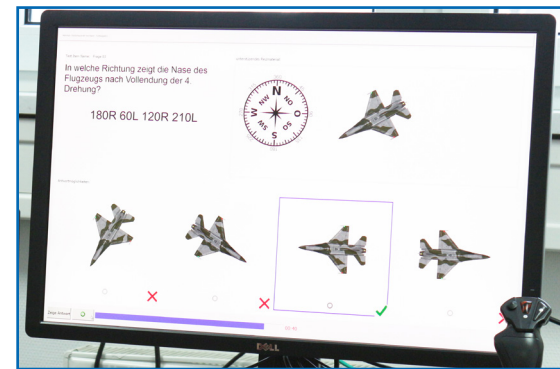- Networked exercises for multiple user structure

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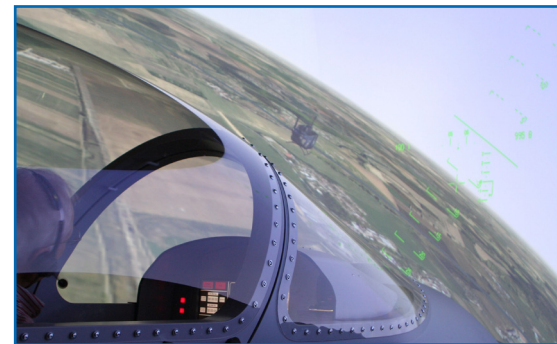## Solutions for Psychological Based Applicant Screening

Technical Features

High performance systems for Pilot Screening and Vienna Tests

- Scalable system design (monitors to projection system)
- Economically designed fully functional consoles
- Pilot Screening System:
  - Robust replicas of cockpits with lockable canopy for noise reduction
  - Comprehensive and realistic flight dynamic models
  - Spherical projection dome with 200° horizontal and 45° vertical field of view
- Vienna Test System:
  - Use of stationary PCs or mobile devices
  - Clear and intuitive user interface
  - Local and decentral test execution and evaluation
- Multi-functional display with all basic flight instruments, e.g. altimeter, compass, AOA, G-meter, flaps & gear indicators, camera control, UAV control

Powerful and flexible software

- Based on the international standard of computer-based diagnostic
- Flexible test editor to create tests according to your needs and requirements and for various profiles of qualification
- Tests configurable to different stress levels and psychological testing concepts
- Powerful communication system
- Digital recording and storage of complete evaluation scenes
- Standardization of test contents, test execution and test evaluation
- High degree of measuring accuracy and high resistance to tampering
- Error-free, automated and objective test evaluation

Extensive database

- Geo-specific database with realistic representation of the training area
- Numerous aerodromes, 3D objects, models and special effects
- Powerful database generation station