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MADE SWISS

VR-MOTION 200.

Pilot Selection System.

With complexity of civil and military aircrafts and their operational environment growing, the demand for qualified pilots grows as well, increasing the investment in pilot training. Selecting pilot candidates who have the abilities necessary to become a successful pilot is an important, but difficult and quite often time-consuming process. Pilot Selection Systems supports the candidate assessment by embedding the candidate into a testing environment which provides guidance through the various tests, analyses candidate performance and prepare an objective report for debriefing and final assessment support. Configured for and equipped with validated test procedures and measuring criteria from the Selecting-Authority, VR-Motion 200 becomes the ideal platform for Pilot Assessment and Performance Monitoring.

ENDURING SUSTAINABLE FAIR ATTENTIVE OBJECTIVE HOLISTIC INNOVATIVE ENDURING SUSTAINABLE FAIR ATTENTIVE OBJECTIVE HOLISTIC

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Problem adressed

A qualified pilot selection process is a key success factor in aviation. Especially the aspect of the significant costs associated with pilot education and training requires a careful upfront assessment of a candidate's physical and mental abilities and constitution. Pilot aptitude tests aim to assess the core skills required to complete pilot training successfully and to master aircraft operations at a 100% level. The assessment of skills such as multi-tasking, spatial awareness, memory capacity, hand-to-eye coordination and mental arithmetic cannot necessarily be assessed within one test.

Therefor pilot selection works as a sequence of test-steps with various focus areas and increasing the complexity and stress level to the candidate. Ideally, a computerized and automatic testing and evaluation system supports evaluator and process and guarantees objective and fair results.

Use-Case

Pilot selection and assessment benefits from a comprehensive support system acting as an integrated pilot screening and evaluation tool, allowing to determine a candidate's aptitude, skills, and performance in various flight environment conditions.

Fully immersing the pilot candidate into a Virtual Reality environment and adding motion cues and sound will allow candidate screening at a new quality level.

Solution Provided

VR-Motion 200 Pilot Selection Systems creates an immersive Virtual Test and Evaluation Environment representing all selected tasks and test that the pilot candidate has to perform on.

Candidates are tested on their psychomotor skills, coordination and conscious attention management (including reaction time, comprehension, attention, perception, and audio and visual memory) within a dynamic Virtual Reality - based flight environment.

Configured for and equipped with validated test procedures and measuring criteria from the Selecting-Authority, VR-Motion 200 offers automatic and objective testing and test repetition, automatic grading and timely calculation of test results and data logging for later debriefing, evaluation and storage.

ENDURING   SUSTAINABLE   FAIR   ATTENTIVE   OBJECTIVE   HOLISTIC   INNOVATIVE   ENDURING   SUSTAINABLE   FAIR   ATTENTIVE   OBJECTIVE   HOLISTIC