



BRUNNER VR-Motion 200.

Your innovative Virtual Reality Solution
with Dynamic Motion.



BRUNNER VR-MOTION 200.



The future of Virtual Reality is bright. And with VR-Technology emerging rapidly, it will revolutionize many use-cases and applications that have been like frozen over the past years.

The BRUNNER VR-Motion 200 Platform combines State-of-the-Art Virtual Reality technology with powerful dynamic motion enriched Virtual Training environments.

The powerful combination of talent and competence between VRMotion, the University of Rapperswil (HSR) and BRUNNER creates powerful and affordable simulation solutions for applications like Training and Mission Rehearsal, but it will also support processes like Concept Development & Experimentation.

The unique single frame precision motion compensation in combination with the HTC Vive glasses allows a perfect VR immersion. The highly advanced and latency-free Motion Cueing Algorithms with in-ear-simulation generates best Motion Experience.

VR-MOTION 200 KEY CHARACTERISTICS.

The powerful VRMotion Software Environment allows easy integration and configuration for a multitude of simulation packages and platforms.

The external communication with the simulator interface is done over Gigabit Ethernet. A powerful Motion Configuration tool is used for adjusting the Simulation Profiles and other parameters.

Beside the VR Application, the 6DOF platform is very flexible and can easily be equipped with a cockpit and screen frame offering further advanced training capabilities.

VR-Motion 200 comes with an embedded Control Unit, hosting a high-performance PC which is running the intelligent motion platform server. It also contains a safety certified high-speed control unit to leverage the full performance of the motion system.

Finally, VR-Motion 200 represents a cost-efficient overall systems design that ensures maximum durability, lowest life-cycle-costs and an easy and fast installation and integration process.

VR-MOTION 200 AT ITEC 2017.



The initial application of the BRUNNER VR-Motion 200, the VR-Motion F/A-18 Jet Fighter Simulator, was introduced to the public at ITEC 2017 in Rotterdam. Today, a multitude of relevant use-cases, both in military and civil operational applications, were identified and turned into promising and cost efficient new training solutions.

On VR-Motion 200, all mission relevant information will be provided via the virtual reality helmet carried by the trainee on the dynamic motion platform. Supported by real or virtual instructor guidance, the trainee gets introduced into the various mission phases and performs the training exercise individually or as part of a crew exercise.

AIR-TO-AIR REFUELING.

Air-to-Air Refueling is an essential capability that increases the range, endurance, payload and flexibility of all capable receiver aircraft, and is especially important when forward basing is limited or unavailable.

Besides having a proper qualified and trained tanker crew and boom-operator, each pilot of a receiving aircraft needs to master all the tactical formation flying rules and the tactical communication around it.



AERIAL FIRE FIGHTING.

Climate change has contributed to a global increase in the length of the fire seasons, the size of the areas burned and the total number of wildfires. Coordinated, consequent and early Aerial Firefighting, both with fixed wing and rotary wing aircrafts, is a key element for minimizing the negative impact and consequences of uncontrolled wildfires.

Aerial Firefighting creates the highest demands for mission readiness and operational awareness.



PILOT SELECTION.

With complexity of civil and military aircrafts and their operational environment growing constantly, the demand for qualified pilots is growing as well. Selecting pilot candidates who have the physical and mental abilities necessary to become a successful pilot is a fundamental success factor.

Pilot Selection Systems supports the candidate assessment providing guidance through the various tests, analyses candidate performance and prepare an objective report for debriefing and final assessment support.



WINCH OPERATIONS.

Rescue missions, military operations or industrial installation tasks very often require support by Helicopter Winch Operations. Typically they have to be executed in limited time and under stressful conditions, causing high risks for the aircrew and everyone in the winch operations area.

A well-trained aircrew is essential for the success and safety of such winch operations. The pilot and his ability to assess the situation, to follow procedures precisely and to master the hovering aircraft perfectly are key to operational success.



BRUNNER ELEKTRONIK AG

Development, production and customer services at the highest level: this describes the business activities of BRUNNER Elektronik AG and our motivation to convince every customer with individualized controls, drives and components. Also, we are proud of supporting our customers with complex integrated solutions and our own innovative and strong simulation product portfolio.

As a modern family-owned technology company we are a powerful and reliable partner of numerous companies in different industries and markets for more than 40 years now. Our ability to handle all corporate core processes, from development to production and customer support, fully in-house creates sustainable advantages for our customers and partners: short response times, high flexibility and an integral understanding of quality. Our engaged and highly qualified employees share our enthusiasm for working for our customers, take over responsibility and live the values of team spirit and fairness.

We pay attention to the environment and the ecological use of resources.

