



Immersive Labs

Bertec Immersive Labs is an integrated research system for biomechanical analysis. It combines a split belt force instrumented treadmill, 3D motion capture system, and virtual reality dome. The system allows the researcher full control of the lab environment. You can customize the visuals, create cognitive challenges to test sensory performance, and control the motion of the treadmill. The system gives you the tools to design lifelike research environments to collect the most impactful biomechanical data possible. The treadmill can also be used for studies not using the visual scene depending on research needs of the organization.

The most biomechanically accurate immersive research lab in the world

Bertec Instrumented dual belt treadmill

Motion Capture

4 or 5m dome with full visual immersion

Design unique, innovative research protocols

Custom visual & proprioceptive perturbations

Cognitive tasks

Interactive challenges & obstacle avoidance

Live biofeedback

Safely challenge human sensory performance

Immersive environment

Safety harness

Emergency stop buttons

Features

Protocol builder

Customizable biofeedback features

Treadmill

Real-time data synchronization

Real-time customizable visual & mechanical triggers from kinetic & kinematic data

- Dual belt treadmill for 3D force measurements
- Dynamic control of belt speed



For more information, contact Bertec at 614-543-1127 or by email at sales@bertec.com