How TRAZER Works

Everybody moves. TRAZER makes every body move better.

The TRAZER® system, protected under multiple registered and pending patents, consists of **hardware**, a cloud-based **software** application with proprietary algorithms, and an online **HIPAA-compliant portal**. Designed for injury recovery, injury prevention, and enhancing performance, TRAZER is the only technology of its kind that improves both physical and cognitive function.

Applicable wherever people move and leveraged in healthcare, prosthetics & orthotics, senior care, sports, wellness, and workplace injury prevention, TRAZER is delivering better Brain + Body™ outcomes.
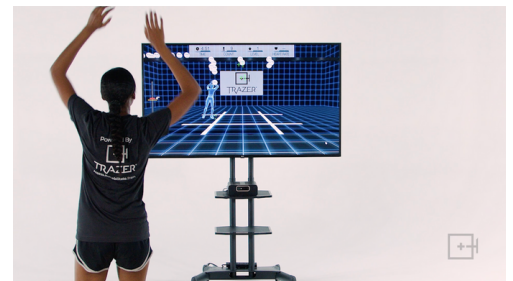
Hardware: The TRAZER Unit

A specialized computer and high-powered, depth-sensing camera track 32 key movement points on the body at 30 frames per second (fps) to capture what the naked eye can't.

Software: The TRAZER Software

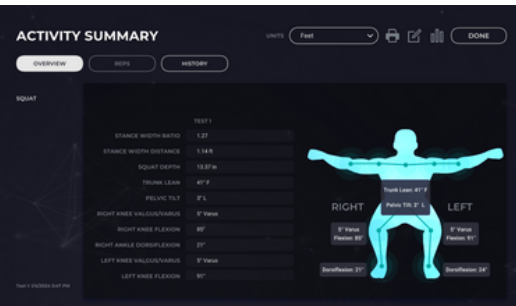The TRAZER app-based software features 100+ reaction-based activities tracking physical and cognitive reactions and generating data related to Dynamic Movement, Kinematics, Balance, and Neuromechanics.

Users are calibrated into an immersive environment and represented by an avatar that reflects their movements as they follow on-screen prompts. While completing activities in the categories of Assessments, Rehabilitation, Workouts, Drills, and Games, millions of data points are processed in real-time generating standardized and objective data for **immediate post-activity on-screen review.**

MEASURE WHAT MATTERS

- **Reaction Time**
- **Dynamic Reaction Time™**
- **Multi-Directional Asymmetries**
- **Total Time**
- **Sway (Balance)**
- **Heart Rate**

- **Acceleration & Deceleration**
  - Features a Deceleration Index
- **Speed & Distance Traveled**
- **Progression & Degradation**
- **Targets Hit**
- **Kinematic Joint Angles**

The TRAZER Portal

The HIPAA-compliant TRAZER Portal serves as the central command center, securely encrypting and storing data. From the Portal, Administrators can create/manage Users and set permissions for Staff and customize the view of Activities by location(s).

Additionally, comprehensive analyses of Groups or entire User populations can be conducted, providing valuable insights. Administrators are equipped to generate in-depth standardized reports that meticulously track performance trends over time.

TRAZER reports serve multiple purposes, such as facilitating streamlined billing processes or supplying impartial third-party data. These insights, in turn, can support recommendations made to Users, third-party care providers, and insurance companies. Reports can be printed or saved as PDFs and data can be exported for use with other systems.

The flexibility of the reports extends to the inclusion or exclusion of date and time-stamped Provider and/or Administrator notes.