

NEURO-REACTION & AGILITY SYSTEM

The Sportreact System is an advanced platform for enhancing reactive agility, focusing on speed, reaction time, and decision-making. It combines laser timing gates and reaction lights for precise performance measurement. A core USP is the capture of real-time data (time, velocity, acceleration) to analyze the athlete's entire reaction-to-movement process. The system's flexibility supports diverse drills, from linear sprints to complex game-like reactive movements using visual cues. Sportreact makes athletic performance measurable, repeatable, and progressive in any setting. This capability allows coaches to individualize training and track improvements consistently.

SPEED, CHANGE-OF-DIRECTION,
REACTIVE AGILITY & COGNITIVE DRILLS

INTEGRATED TIMING
REACTION-LIGHT SYSTEM

ACCURATE, RELIABLE DATA
FOR PERFORMANCE METRICS

CUSTOMIZABLE
TESTS AND DRILLS

RESEARCH-VALIDATED
PERFORMANCE & REHAB

VERSATILE FOR INDIVIDUAL &
SCALABLE FOR GROUPS

USEFUL FOR PHYSICAL &
COGNITIVE TRAINING

PORTABLE, EASY TO
SETUP AND DEPLOY



- Reactive T-Tests, Agility Lane, Signal-Based Shuttles, Y Tests, Customized If-Then Tasks, Three Cone, Test Curvilinear Speed, Endurance, Yo-Yo Intermittent & More
- The system include LED pods, timing gates, reaction sensors & mounting stands for flexible setup

Technical Specifications



Timing Accuracy

1 ms resolution (1/1000th second)



Laser Gate Range

Up to 9–10 m ($\approx$ 10 yards)
between pods



Proximity Detection Range

Up to $\sim$ 1 m ($\approx$ 1 yard)



Impact / Hit Detection

3-axis accelerometer per pod



Battery Life

$\sim$ 8 hours active use



Charging Time

$\sim$ 3.5 hours (USB-C / magnetic dock)



Durability Rating

Water and dust resistant (approx. IP66)



Housing Material

Polyamide / high-strength nylon



Connectivity

Bluetooth connection to app (iOS / Android)



Data Sampling

Force, speed, split & reaction times



Pod Count (Starter Kit)

6 pods (3 timing gates + 6 reaction points)



Mounting Options

Tripods, suction cups, straps



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