



FALCON PURSUIT

CAPTURING THE FUTURE OF HUMAN PERFORMANCE

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Falcon Pursuit Unveils Revolutionary Athlete Equilibrium Protocol System

Portable scanning technology transforms sideline injury assessment with precision balance analytics beyond traditional force plates.

PORTLAND, OR (08.08.2025) - Falcon Pursuit announced today the launch of its groundbreaking Athlete Equilibrium Protocol (AEP) System, a portable diagnostic platform set to revolutionize how medical professionals assess and monitor athlete balance and injury status in real-time competitive environments.

The AEP System employs proprietary laser scanning technology to capture comprehensive full-body imagery in just 35 seconds, unlike traditional force plates that provide limited data points and lacks reliability in the field. Falcon Pursuit's latest innovation enables coaches and medical teams to establish baseline measurements, track in-season changes, and conduct immediate post-impact assessments with unprecedented precision.

"The AEP System represents a paradigm shift in sideline diagnostics," said Jay White, Chief Technical Officer of Falcon Pursuit. "By providing at-once, objective, data-driven insights into subtle balance disruptions, we're empowering medical professionals to make more informed decisions about athlete safety, particularly in compromised equilibrium protocols, where every moment counts." Engineered specifically for the demanding conditions of sports environments, the AEP System delivers laboratory-grade diagnostics in a ruggedized, portable format that combines advanced hardware with intuitive analytics software to deliver a field-ready complete assessment solution. Completely contained in a 72 lb Pelican roller case for secure transport between facilities, the AEP System is deployable and operational in under three minutes and provides up to six hours of continuous use from its internal rechargeable power supply. The superbright LEDs enable environmental adaptability for accurate assessments in low ambient light environments typical of night games and sideline medical tents. The AEP System incorporates multiple sensor technologies for comprehensive balance assessment:

- 9-Axis IMU: Captures linear, rotational, and positional data in 3D space
- Precision Ground Mapping: 3,600 ground plane pressure sensors detect foot or cleat metrics with center of pressure crosshair and projection of center of gravity to determine subtle weight shifts and center of pressure for upper body movements
- Visual Reference System: LASER center line provides visual reference for athlete alignment
- Human Tracker: Records 3D skeletal movements for all body segments from torso to extremities

The accompanying AEP Viewer software enables medical professionals to view high resolution graphic representation of the sensors – independently or grouped - to analyze assessment data with unprecedented detail. Using the integrated Falcon Pursuit Dynamic Digital Shadow™ - a proprietary 3D Avatar that evolves digital twin technology in extraordinary detail to enable unprecedented insights into physiological potential - medical and coaching staff can also incorporate multiple poses and pose duration settable from configuration file. A synchronized comparison includes side-by-side analysis of baseline and post-impact video with frame-by-frame control and continuous data & video looping for seamless repeated playback.

The Athlete Equilibrium Protocol System captures the future of human performance and is available now for sports teams and collegiate organizations. For more information, visit www.falconpursuit.com.

About Falcon Pursuit Founded in 2013, Falcon Pursuit is at the forefront of human measurement technology, providing unparalleled 3D representations of the human form through its proprietary Augmented Video Analysis (AVA) Kiosk and Dynamic Digital Shadow™ 3D Avatar technology. Capturing the future of anthropometric measurement and analytics, Falcon Pursuit delivers actionable data that transforms industries by redefining the way we interact with the human body.