

minimaxV4

Catapult.

**A quantum leap in performance!
Better accuracy. Faster data rates. Faster lock times.
Independently tested and validated.
Start getting real and accurate information on short and complex sprints, acceleration/decelerations and tactical information.
Compatible with Catapult's SmartBall for possession tracking and ball use analysis.**

For many Catapult customers, their needs are evolving. They require not just overall estimates of training load but more detailed, repeatable and accurate information - moving beyond distance and velocity bands to acceleration, agility and tactical analysis. Catapult prides itself on being responsive to our customer's needs and the leaders in athlete tracking technology.

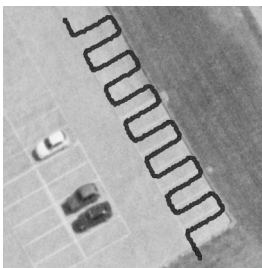
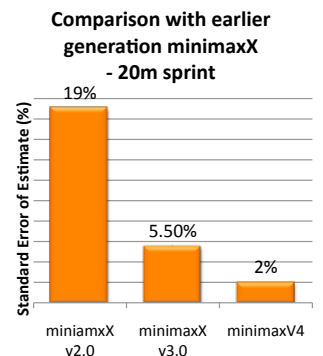
minimaxV4 is Catapult's new generation GPS platform with ball tracking. GPS performance is radically improved to capture not just cumulative information over multiple efforts, but precise data on short individual sprints even when they include multiple direction changes. Combined with SmartBall, minimaxV4 is our state of the art athlete tracking system for fitness and tactical analysis.*

Next generation 10Hz GPS engine

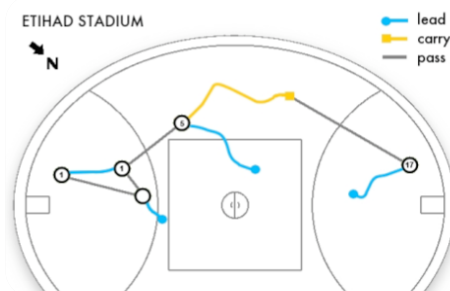
- Measure sprints to within tens of centimetres
- Faster and more reliable lock and re lock in tough GPS environments
- Longer battery life
- Faster magnetometer data rate
- Access to Catapult Live online data management system

New possibilities with minimaxV4:

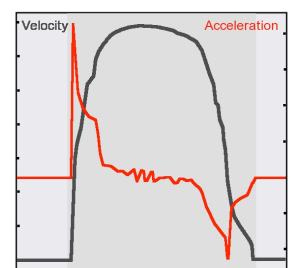
- Measure individual short sprints with confidence. minimaxV4 shows SEE and bias of 1-2% over 20m sprints.
- Reliably track complex movements involving multiple direction changes
- Accurately measure peak and instantaneous velocities
- Measure acceleration and decelerations with 10 measurements per second. Use this to estimate eccentric loading and muscle fatigue.
- SmartBall Ready*:
 - track possessions & work rate when your team is in defence compared to offence;
 - plot possession chains
 - link physical efforts with game effectiveness . . . and more



Measure complex paths with small movements. The above satellite image overlay shows jogging the grid of a standard carpark (2.5x5.5m)



SmartBall opens up a range of tactical analysis possibilities. Shown above is a possession chain report for AFL



20m sprint measured at 20.17m by minimaxV4, and showing good acceleration measurement



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Hardware Specifications

minimaxV4		
GPS engine	Catapult G4	10Hz with assisted lock and improved accuracy
Accelerometers	3D, +/-6g	100Hz
Gyroscopes	3D, +/-1000 degrees/sec	100Hz
Magnetometers	3D	30 or 100Hz
Heart Rate	Polar compatible pickup	T31 coded straps recommended
Memory	1GB internal flash	Approximately 60 hours of data
Battery Life	6+ hours	Lithium Ion rechargeable
Size	19x50x88mm	Rounded profile for safety and comfort
Weight	67g	
Ball tracking	Catapult <i>SmartBall</i> compatible	For use with AFL and Rugby only
Harness	<i>CoolEdge® Silpure®</i> antibacterial moisture management fabric	Available in sizes XXXXS to XL
Live wireless data	2.4GHz, 250m range, 5Hz update	Track up to 44 athletes at once
Environmental Protection	Water Resistant	
Indoor use	Indoor wireless heart rate and inertial sensors	Upgradeable to Catapult Indoor GPS

Compatible with:

- LoganPlus analysis software
- Catapult Live online database and remote uploader
- minimax 4 wireless receiver
- minimaxX charge case
- nanotrak

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