



Athlete Performance and Safety Gear Management

The *PlayerMD™* Biometric Platform is the most technologically advanced Athlete Performance Management Platform currently available. *PlayerMD™ PM (Performance Management)*, monitors an athlete's vital signs and other performance related metrics. *PlayerMD™ GM (Gear Management)*, ensures proper helmet fit and performance of safety equipment.

The platform is designed to enable athletes to perform at peak levels throughout the season while allowing them to maximize performance and longevity in sports. A small sensor pack weighing less than 15 grams is inserted into a skull cap, head band or fitted into Russell Athletic's CarbonTek™ shoulder pads, currently in use at the NFL and the NCAA, to measure individual performance and biometric readings. *PlayerMD™* sensor packs run for 400 hours on a single battery which means no recharging throughout the season.

PlayerMD™ PM captures an athlete's heart rate, burned calories, blood oxygenation levels, body temperature, speed, acceleration/deceleration and total distance traveled during play. Additional features such as breathing rate and other metrics are also available. Coaches and athletic trainers receive Performance Alerts in real-time, via email and text messages, when certain performance thresholds are reached or vitals change so an athlete's overall performance can be monitored and improved over time. An athlete's performance data can also be used to help guard against overheating, fatigue and other related injuries.

PlayerMD™ GM monitors helmet fit using a combination of sensors packs with one in a skull cap and one mounted to the helmet. This allows impact data to be compared between the point-of-contact (i.e. helmet) and the head itself to ensure proper helmet fit and overall performance throughout the season. *PlayerMD™ GM* monitors shoulder pads by fitting one sensor pack in the shoulder pad and another underneath the pads to measure overall pad absorption and performance.



PlayerMD™ was developed under the guidance of leading Sports Medicine experts including Dr. James Andrews and Dr. Jeffrey Dugas of the Andrews Sports Medicine and Orthopedic Center and technical experts from Siemens, AG and ST Microelectronics.

Key Features:

- Captures an athlete's heart rate, burned calories, blood oxygenation levels, breathing rate, body temperature, speed, acceleration/deceleration and total distance traveled during play.
- Runs on a watch-style battery for 400 hours of use so no recharging is required throughout the season.
- Designed to withstand 1000 G-forces of shock and is water resistant so *PlayerMD™* can handle the most extreme environments, including military use.
- *PlayerMD™* is the only performance monitoring solution to monitor helmet fit and safety gear performance throughout the season.
- Hit and Performance Reports are automatically emailed so coaches and athletic trainers can monitor training, field and court activities.
- *PlayerMD™* is built on over a decade of proven hardware and system design, runs on Microsoft Azure and conforms to Siemens quality assurance standards ensuring the highest reliability possible.



Proven in NCAA Division I Football



The above images were taken from an NCAA Division I football game showing *PlayerMD™* in action. *PlayerMD™* sensor packs are so discreet and lightweight an athlete will hardly know they are wearing the system.

The image below was taken from an Auburn University defensive player making a tackle. It is important to note the player was still accelerating after 120ms. *PlayerMD™* is the only performance management solution available that captures the full duration of an impact so full assessment of helmet fit and safety gear performance during play is tracked.



For more information, contact Sales at 855.999.ARCH (2724) or email: sales@archetypecorp.com

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