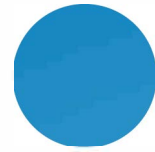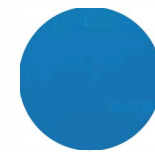corpore sano LLC
Body Technologies

wimu®
.PRO

wimu®

wimu® PRO SPRO SVIVO

Imagine a key member of your elite performance team, with technical, tactical and medical performance insight at individual and team level. A colleague who adapts to your structure and support systems, interacts at all levels and is responsible for helping to grow the "Knowledge" within your organization to deliver winning results.

WIMU PRO offers this world of possibilities with a User Friendly wearable tracking system, to deliver real time and Post session data, easy to install and mobile both indoor and outdoor to capture all performance data during home matches, away games and all coaching, training and gym sessions. One system, compatible with any external ANT+ devices to deliver you the most complete key data, in one secure platform, available to you anywhere at anytime.

wimu® •PRO

REALTRACK systems has developed the leading wearable device system WIMU PRO to monitor every moment of your training sessions. Uniting ergonomics and performance to collect and transmit instantly every conceivable metric and variable to maximize efficiency and productivity during real time, training and coaching sessions, individual recovery & return to play management, tactical implementation, talent identification and deep dive data post session for your specialist teams to analyze and build their own database of individual and team parameters and history.

SPORTS TECHNOLOGY

The purpose of technology in sport is to provide a knowledge base to improve results.

WIMU PRO has been specifically developed for professional and elite level sports organizations as part of your team equipment, anywhere you go, WIMU PRO can go, gathering data, performance analysis and supporting your decision making processes.

INFORMATION
Powerful Processors , Raw Data & WIMU Cloud Systems; gps/gnss and UWB within 10cm accuracy

Leaders in PRECISION
Unique Hybrid System GPS/GNSS + UWB to within 10 cm

WIMU DEVICE
Intelligent, compact only 15 mm at widest point WIFI, Bluetooth, ANT+, Sensor HUB, lightweight 70g, robust INTEL Atom Core processor Inside

DATA
Data transfer, Efficient data transfer using sensor HUB WIFI, Bluetooth, Ant+

Intel Atom Inside 1GHz
Hybrid Location System; GPS/GNSS 18 Hz
Precision Locator UWB <10cm
4 realtime monitors:
    BLUETOOTH, BLE, ANT+, WIFI B/G/N
    (HEART RATE, SMO2, EMG, ETC)
3 Level Inercial Sensors:
    3D Accelerometer1000 Hz (400G)
    3D Gyroscope 1000 Hz (8000º/S)
    3D Magnetometer (100Hz)
Identification NFC
OLED Screen (player ID)
Standard USB portal
Small and light

Total data capture; Equiped with multiple sensors WIMU PRO captures and processes every individual movement and positional change on the field or court, with an inbuilt INTEL processor only WIMU PRO can guarantee immediate data flow using 3 independent wireless technologies.

WIMU PRO leads the competition not only for advanced functions but also in its versatility. Your team can focus on extracting the maximum knowledge and advantage from the system without being preoccupied with complex set-up or technical shortfall. The advanced INTEL processing delivers speed, the raw data package delivers the most advanced tracking available and our unique Hybrid signal detection ensures total control, indoors and outdoors.

WIMU PRO is always match ready to meet your most demanding expectations.

- INTEL ATOM PROCESSOR 2 CORE/1GHz
- LINUX OPERATING SYSTEM INSIDE
- GPS/GNSS SATELITE TRACKING
- UWB (Ultra Wide Band) Tracking Precision < 10cm (In conjunction with WIMU Antenna

- 3D Accelerometer 16G – 1000Hz to capture tilt/ free fall/ hang time etc
- 3D Accelerometer 100G to 1000Hz to capture acceleration, impact,reaction time, jumps, hits etc

- 3D Gyroscope 1000Hz with range up to 8000 (±4000) degrees per second to capture angular velocity, change in direction, rotations, tilt, position on the pitch or court etc
- 3D Magnetometer 100Hz which works as a compass to detect direction of movement, forwards,lateral,reverse etc
- Barometer 120kPa to calculate the impact of barometric pressure, atmospheric pressure...
- WiFi 802.11 B/G/N to transmit rapid data
- Bluetooth 4.1 for data flow exchange
- ANT+ To interact with other compatible devices and systems such as podometer, heart rate monitors, muscle oxygen, blood oxygen , EMG and eardrum devices as examples
- High velocity USB 2.0
- NFC (Near Field Connectivity) short range wireless technology
- OLED On device display programmable with players names and numbers ID.
- Smart station hard-case docking for up to 28 WIMU wearable devices
- Small only 15mm at the widest point, Light 70g and robust design
- Battery 1300 mAh.

wimu.PRO   SPRO   SVIVO

Much more than just GPS! WIMU PRO guarantees the most effective precision coverage thanks to a unique Hybrid system of location detection. The only system to combine multiple signals from GPS/GNSS and UWB (Ultra Wideband) technologies guaranteeing an uninterrupted data flow, removing signal drop-out and the risk of localized interference. Indoor and Outdoor WIMU PRO delivers unrivaled accuracy to within 10cm in any direction of movement.

WIMU PRO is the key to increasing your knowledge and insight, increasing your competitive advantage for both individual and team performance and results. WIMU PRO is always available to access, to deliver you the specific information you need whenever and wherever you need it, in real time display and post session deep-dive data analysis to take the risk out of decision making.

WHY WIMU PRO

ONLY HE WHO CAN SEE THE INVISIBALE CAN DO THE IMPOSSIBLE
(FRANK L. GAINES)

- WIMU PRO is the best option for Elite and Professional sports performance tracking. An advanced solution with straightforward set-up.

- WIMU PRO is the only system to cover all sporting and training activities and exercises both Indoors including Gym sessions and Out-doors in ONE system, optimizing investment and the efficiency of time for your coaching and technical, medical staff to have all data in one place

- WIMU PRO is the only system to have been developed using a Hybrid tracking system which seamlessly processes data from GPS/GNSS and UWB signals. Removing the impact of signal drop-out and reducing any interference from local stadium or venue interference.

- SVivo : The proprietary software has been developed entirely by our own team of engineers and programmers together with experienced sports science practitioners and coaches from leading professional sports organizations.

- Real time visualization on tablet or other hand held pitch side or court-side devices, rapid feedback to increase the efficiency and impact of training sessions, improved decision making capability In Play and an in-built action replay function and Drill Recap on key players and events.

- SVivo allows multiple users to access different areas of the system in real time simultaneously to support their individual requirements and responsibilities, reducing risk and guesswork to make knowledge based decisions quickly and with conviction.

- SPro : A powerful Software for Post activity analysis of each session, drill or game/match. Based on Raw Data which is available to the Users you are free to completely personalize and customize the information you require, distilled down into key performance indicators or deep dive historical and comparative data , and all points in-between to capture and extract the elite performance data you need.

- TACTICAL ANALYSIS: The signal strength and reliability of positional accuracy (within 10cm in any direction, including vertical) both Indoor and Outdoor enables WIMU PRO an unrivaled accuracy and dependability, the system is the only one also equipped with a barometer in each wearable to consider factors such as altitude and pressure.

- Accurate tactical positioning, biometric change in direction, type and intensity of movement, evaluation of individual and team positioning, triangulation and dependency, area mapping and real time tracking for your staff to analyze and evaluate tactical awareness and execution, address live play issues, closely define or develop specific training drills based on these learnings and knowledge, create case studies, apply to return to play, match fitness and medical teams for player load assessments.

- ANALYSIS OF TECHNICAL SKILS AND TRAINING EFFICIENCY: Designed to identify and include sporting movement and mechanics for specific sports skill sets: Jumps, Impacts, Throwing, Bowling, Batting, Raquet sports movements, passing, overhead, kicking etc etc.

- Biomechanical analysis and evaluation of all technical processes and repetitive evaluation easily synchronize with video, effort analysis. Critical specific visibility and data on load levels, increase return to play, reduce injury, highlight and optimize training drills and better manage effort levels and squad rotation within match scheduling and travel requirements.

- PHYSIOLOGICAL FUNCTIONS: WIMU PRO is an open system, defined by User access to all Raw Data levels in addition to a bespoke Menu of core performance data templates and graphics. An open system using advanced Bluetooth and ANT+ allows for the addition to the system of any compatible devices, hardware or other measuring or analytical devices fitted with this capability. WIMU PRO can collect and process data from any such device and deliver the results on screen within the WIMU PRO system menu, no need to create separate software User applications or files, no need for multiple systems, all you need - in one place. There is an ever growing number of interesting and valuable devices, what started with Heart Rate monitors and chest straps now includes complex Muscle Oxygen readers, Blood Oxygen levels, Potentiometers and many more.

- Wimu Cloud: Allows for Multi User access from any WiFi connected location, on any device, access to all the data from all sessions, compare historical data, consult individual performance files, share data as you need cross functionality for all your backroom staff - medical teams, Strength & Conditioning, tactical and Skills based evaluations.

- Physiological : WIMU PRO is an open system, By this we mean that WIMU PRO can be used to process and present data from other wearable devices and detectors, any device which is using Bluetooth or ANT+ to transfer data. Both software packages, SVivo for real-time data and SProfor post session analysis can integrate information captured from such devices and present this data on the WIMU PRO menu for you to manage efficiently in one platform. This is not confined to Heart rate monitors but today includes an ever expanding range of new technologies and devices from Muscle Oxygen devices, smart textiles, blood oxygen detectors advancing the ability to monitor player specifically and incorporate all data on one secure platform.

- Wimu Cloud : Allows for unrestricted access to your files and data via any device from anywhere in the world with a WiFi connection. Multiple access means that Users are unrestricted and can build their own files, historical data, specific profiles and evaluations and easily share with the appropriate resources, saving time and increasing efficiency.

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  WIMU PRO incorporates a time stamp in real time to allow for quick and efficient recap of all key actions and moments of interest at a simple click of a button. Post match ,the ability to quickly find what you are looking for and remove the need to scroll through hours of tape is a key to efficient application and learning.

"TECHNOLOGY RAISES THE LEVEL OF KNOWLEDGE AND WITH IT THE LEVEL OF COMPETITION"
(MOUNIR ZOK United States Olympic Committee Senior Sports Technologist. 2016)

WIMU PRO is proven across a large spectrum of different sporting activities and specialism's including science research programmes and academic institutes. The system potential is unparalleled given its extensive and open raw data access for application in Universities, Sports Science and Bio mechanical research, specific injury recovery programmes and rehabilitation Institutes. WIMU PRO is proven to be an invaluable diagnostic and monitoring tool by recognized specialists around the world.

"INFORMATION IS POWER "

(FRANCIS BACON)

We understand that time is a valuable asset and that quality of information is critical, the right data, presented in the right format, within the required time and with flexibility to be adapted and edited quickly to share across multiple platforms.
Our partners demand and expect from WIMU PRO and our development engineers the real time and real life demands of operating at the very highest levels of global competition and the huge expectations that come with elite sports. Rapid Feedback is a cornerstone of our architecture, WIMU PRO is a constantly evolving platform as we develop and integrate via regular software updates new metrics and implementations to your Team.

TRANSFORMING DATA INTO KNOWLEDGE

WIMU PRO has two distinct software packages: SVivo : To deliver Real Time visibility and SProfor the Post Session download and data access to raw data and all historical and comparative data.
WIMU CLOUD platform enables you to share and access the data in any format whenever and wherever you need . (BIG DATA SPORT WIMU).

wimu ®
● PRO

Broadcasting and video synchronization: WIMU PRO has been developed to be fully integrated with video content, from the most sophisticated TV Transmissions to simple home video shot on your cellphone. Syncing the data with the images provides a clear and powerful presentation tool to your players, medical team,coaches and trainers and we go much further.

WIMU PRO is designed to provide fan engagement and live, in-play analytics, on screen and supporting commentary teams and post match, half-time analysis. The ability to increase your fan engagement on social media and potentially increase revenue streams by incorporating cutting edge player and tactical data provides for an interactive experience which gets you closer to the action.

SVIVO

"IN ONE HOUR OF SPORT YOU CAN DISCOVER MORE ABOUT A PERSON THAN IN A YEAR OF CONVERSATION."
PLATON

Imagine being able to exactly monitor over 120 different parameters in real time during the activity of your team or players, one by one. Imagine being able to access all this data at your fingertips, on any device, every movement, every change in direction, every sprint, jump or impact.
Imagine being able to continuously track in real time and analyze the positional play of individuals and special teams in relation to the opposition and each other including visualization instantly of velocity, force, Load levels and effort.

SVIVO SOFTWARE MAKES ALL THIS POSSIBLE............AND MORE.

SVIVO

SVivo Software Opens the Door to a new dimension in effective sports performance management and dramatically increases the efficiency and impact of your drills and sessions allowing for analytics to support the intensity and type of drill, exercise, training sessions best suited to specific team and individual needs thus ensuring that every asset is correctly invested to deliver a winning result.

SVivo is a unique Software package , increasing the capacity and efficiency of all your players and team sessions. A unique software package, increasing the capacity and efficiency of all your Player and Team training continuum,strength and conditioning, tactical and skills coaching,medical and injury management, return to play, squad rotation and talent identification

Multi User platform, indoor and outdoor, each member of your team can access independently their preferred data requirements and set their own graphics and formats, with a new Instant replay function and real time precision to enable rapid feedback and decision making support.

SVIVO

On screen, in real time , synchronized with video, every training session, every gym exercise or work out, every live game home or away efficiently and exactly monitored and key performance data metrics on screen, tablet or other device for you to consult to support your decision making.

 5 CRITICAL DATA GROUPS:

- KINETIC VARIABLES SUCH AS VELOCITY OR DISTANCE
- PHYSIOLOGICAL VARIABLES SUCH AS HEART RATE,BLOOD OXYGEN SATURATION ,MUSCLE OXYGEN METRICS OR ELECTROMYOGRAPHY.
  WORKRATE METRICS SUCH AS PLAYER LOAD OR METABOLIC POWER
- TACTICAL   POSITIONING   SUCH   AS   VORONOI   DIAGRAMS,   DELAUNAY TRIANGULATION OR LINEAR AND SPACIAL TRACKING
- WIMU DRILL MANAGER ALLOWS FOR THE RAPID MARKING OF ANY SPECIFIC DRILL OR ACTION WITHIN A TOTAL SESSION TO EXTRACT METRICS ALONG A TIMELINE, INDOORS AND OUTDOORS AND QUICKLY LINK TO VIDEO OR
- BROADCAST FEED

Access to all tactical information and to WIMU drill manager in real time ,on screen. The entire system has been developed to allow for rapid feedback and enablement, support decision making and taking appropriate actions in the high stakes, high pressure environment of professional sports.
para un rapid feedback y mejorar el proceso de toma de decisiones.

Spro is the most complete ,versatile and advanced Software system available to process data captured by WIMU PRO and compatible devices (Bluetooth & ANT+). Thanks to an exclusive platform developed by Realtrack Systems all sessions can be synchronized with video simply and quickly to provide a complete picture of training drills, sessions and real game events

You are free to choose the parameters using a simple click and drag menu and Spro Software will do the rest to create a made to measure configuration of the information you need. In addition and unique to WIMU PRO the system allows access to raw data enabling users to develop their own functionalities and unique reporting formats and data presentations.

SPRO

SPpro: Integrated uses for all your Technical staff, research, strength and conditioning, medical, tactical and skills development.
SPRO works across 4 levels:

RAW DATA: Open access for you to create your own applications, to align with your needs and existing reporting platforms and document profiles.
MONITORING: Integrated applications, Preconfigured to deliver all Key Performance Data stats, a profile which has been developed for specific sports types both indoor and outdoor.

SPRO

SPECIALIZATION: Applications designed to extract specific detailed data used in scientific and medical information, sports science academia, physiotherapy and rehabilitation.

PERSONALIZATION: Individual configuration allows the creation and editing of specific charts and graphs to your own specifications and requirements, statistics, historical data, comparative data across the squad or an individual's timeline. Identify the critical points relative to your Sport.

Sports Performance monitoring at the elite level is a 360 degree continuum, all elements must be monitored and brought together under a coherent plan, the ability to quickly assess and adapt to challenges, changes and opportunities requires a flexible platform.WIMU PRO has been specifically developed with this in mind Spro Software gives you and your staff the freedom to act decisively, to develop scenarios and options, reliable insight to support your risk assessments and decision making processes.

SPRO

Professional Sports is a results driven environment and culture, gaining a competitive edge and delivering the optimum performance when its most needed requires sophisticated planning and a complex matrix of specialists all working to achieve common goals.

The correct use of time is critical, using the data from SPro your entire technical and coaching staff can access and analyze the data they need.

"THE OBJECTIVE OF INTELLIGENT TRAINING BASED ON THE QUALITY AND NOT THE QUANTITY"

MOUNIR ZOK (2016)

Knowing and understanding the performance levels of each individual requires specific performance data to be delivered in a meaningful and appropriate format, appropriate for your sport, the specific position or role of the player, the match scheduling, the management of training between games, returning from injury or returning from International Duty, all such variables impact on the optimization of training and preparation.

SPro provides unique visibility into these key physiological performance parameters, to better define the optimum player load levels, to monitor and evaluate these effort and intensity levels between competitive matches to ensure that performance peaks are achieved and post match recovery and recuperation are correctly monitored and managed.
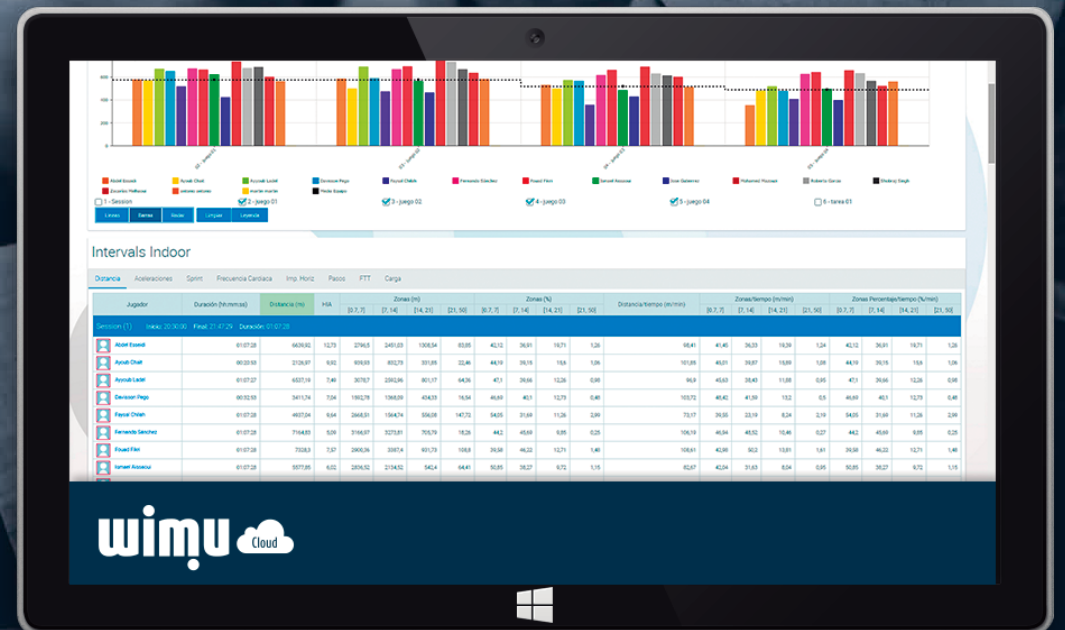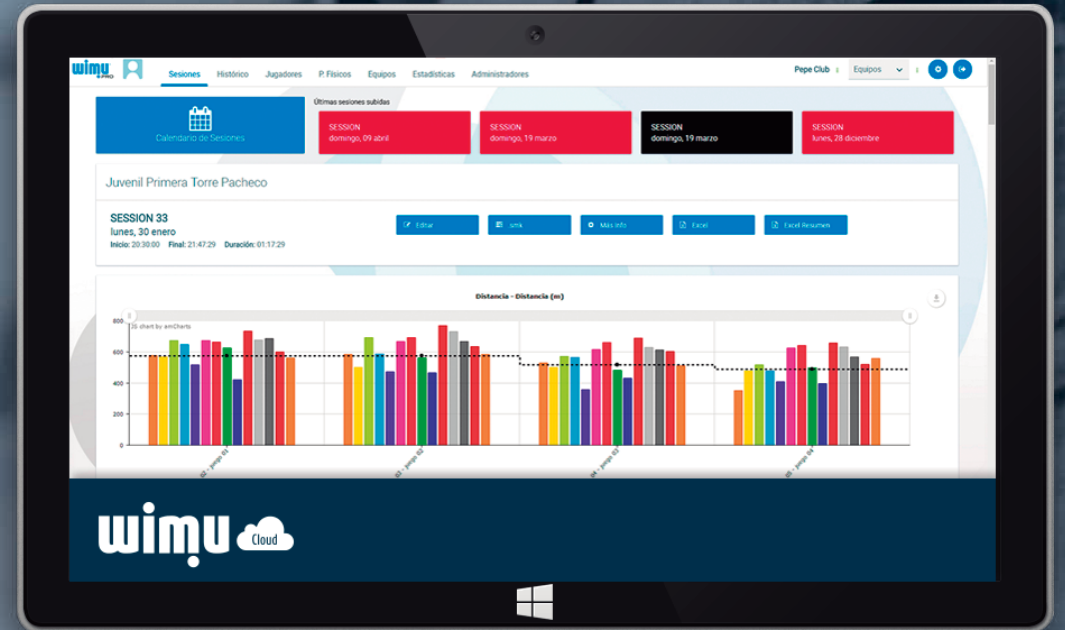
WIMU CLOUD

ANYTIME, ANYWHERE.

Wimu Cloud empowers users to access data at any moment, all that is needed is a WiFi connection, to log on from any device, anywhere in the world.

Communicate the data to your team, players, technical team and share across multiple platforms and emailing as you need. Control and monitor the performance at any time.

- Quick and simple access using Wimu Cloud from any WiFi connection
- Full historical data and session, drill history
- One click away from all your data
- Full analytical capabilities, custom and filed reports including video content

Talent development and critical tactical awareness, an ever increasing implementation in competitive match situations. Evaluate and study individual and collective effort during sessions and live games, take data and translate into knowledge, learning's for your group.

To achieve this objective you require a system and data which is wholly reliable and exact, GPS or satellite signals alone cannot deliver the reliability outdoor and cannot function indoors, this is why WIMU PRO has combined, in a single system, the technologies of advanced satellite tracking with Ultra Wide Band antennas to create a unique and dependable coverage, this greatly improves not only reliability but the precision of all locational data of all players and actions.

The detection of position and movement, change in direction, vertical and lateral are now so advanced that devices can be used within the gym to measure lower or upper limb movements and exercises, we have detected specific reaction times for goalkeepers or boxers, only WIMU PRO is capable of moving from the outdoors to indoor facilities with no break in data capture.

Reliable real time and post session data download and analysis requires that the Geo positional capture is as exact as possible, by combining the maximum triangulation signals and using INTEL processing inside each wearable device WIMU PRO builds layers of crossed referenced coordinates, continuously recalibrated to deliver the most reliable and conclusive geo positional coordinates and relational positions in respect of other players on the pitch or court.

WIMU PRO is without doubt the most advanced elite player tracking system available.

KEEP IT SIMPLE

To have the most accurate and effective technology does not necessarily mean that the system is over complicated for our Users.

We understand that WIMU PRO is a tool, we understand that within any organization requirements and capabilities differ and that to be effective WIMU PRO needs to be deployed quickly and effectively, without any excessive complexity. WIMU PRO is designed to enhance your knowledge, to support your decision making and ability to evaluate situations and options. Our clear focus on enablement for multiple users providing relevant information quickly and clearly in a way which adds value to your ability to make winning decisions.

No Compromises: Indoor and Outdoor WIMU PRO monitors and collects data under all conditions, the wearable device is the only one to include a Barometer to be able to detect changing weather conditions, moving from outside pitches to indoor gyms or work out rooms, from indoor court to outside training facilities, multiple locations. WIMU PRO is designed to be easy to install and mobile, fast set-up or permanent installation with a minimum of requirements to comply with stadium and facility regulations and safety.

TOGETHER WE ARE STRONGER

wimu® PRO

WIMU PRO

ON YOUR TEAM

To guarantee the very best results, every time, WIMU PRO has developed a range of products and accessories compatible with a single system.

WIMU PRO SYSTEM COMPRISES:

WIMUPRO Wireless wearable device, designed and manufactured in Europe specifically for use by elite and professional athletes in competitive situations. WIMU PRO HUB SENSORS. Allows you to add any other external device with Bluetooth and ANT+ capability.

WIMU PRO allows these external devices, not only Heart rate Monitors but an ever increasing list of options to maximize visibility and diagnostic such as Muscle Oxygen sensors, Blood Oxygen sensors, SMART textile shorts and vests

SPRO SVIVO

HEART RATE MONITOR, ANT+ ENABLED WITH STRETCH CHEST BAND

WIMU PRO SPORTS VEST
Specially adapted with neoprene pocket to secure the WIMU PRO device safely between the shoulder blades.Ensure a reliable and stable data flow even during the most vigorous of sessions, impacts and live game scenarios.
The device can be worn above or below the playing shirt.
In addition to WIMU PRO devices and the SPro and SVivo software packages we have a range of accessories to complete your system:

Wimu Smart Station

A specially designed weather proof Hard Case which is the charging and docking station for up to 28 WIMU PRO devices and Heart rate Monitors. Ideal for outdoor use, airplane travel & transportation.

WIRELESS ANTENNA (OPTION):

The latest UWB (ULTRA WIDEBAND) signal technology ensures that both indoor and outdoor your WIMU PRO system is functioning at optimum level to within 10cm of accuracy.
Antenna are easy to install either mobile using standard tripods or in a permanent installation indoor or outdoor.

COMPATIBLE:
SPORT KNOWS NO BOUNDARIES, WIMU PRO is an open system built upon BLUETOOTH and ANT+ wireless technology. Any other sensors or devices using the same systems are compatible with WIMU PRO and data originating from these devices can be included in the same software and data package, presented to all Users in one place on the WIMU PRO menu.

ANT+

REALTRACK systems

corpore sano LLC

WIMU PRO is trusted by Sporting Organizations Pro teams and franchises in addition to leading sports scientists and research institutes around the globe.