

Technical Specification

SPORT GAME ULTRA 999

TITANIUM COMPOSITE

*Advanced Multisport Performance, Biomechanical Analysis
and Predictive Intelligence System*



1. General Description

The SportGameUltra999 represents the next generation of intelligent multisport and performance analysis systems within the Metal Series, designed to provide real-time biomechanical, cardiac, and metabolic monitoring across multiple athletic disciplines.

Engineered for professional athletes, training centers, and advanced sports facilities, the system combines scientific precision, adaptive artificial intelligence, and ultra-resistant materials to deliver a complete and continuously evolving performance ecosystem.

Constructed with high-density Titanium Composite, the unit ensures maximum durability, lightness, and corrosion resistance, ideal for both indoor and outdoor applications, including subaquatic environments.

Through SportIA™ adaptive algorithms, it interprets over 600 biomechanical and physiological parameters in real time, generating predictive insights and personalized coaching recommendations.

The platform operates independently or in conjunction with Metal Series automation systems, integrating seamlessly with environmental sensors, biometric wearables, and cloud-based analytics.

2. Hardware Specifications

Parameter	Description
External Structure	Titanium Composite shell with nano-ceramic coating and satin finish
Main CPU	Dual Core Quantum Logic™ 3.8 GHz edge processor
RAM Memory	32 GB LPDDR6
Internal Storage	2 TB SSD with AES-256 encryption
Cloud Storage	MetalSafe™ encrypted environment with isolated firewall protection
Power Supply	100–240V AC / 12V DC with MetalCell™ 8.0 integrated battery
Autonomy (Portable Mode)	Up to 48 hours (rechargeable via MetalCharge™ port)
Average Power Consumption	42 W (active) / 10 W (standby)
Operating Temperature	–20°C / +65°C
Protection Rating	IP69 – waterproof, shockproof, and corrosion-resistant
Connectivity	Wi-Fi 6 / Bluetooth LE / NFC+ / Gigabit Ethernet / GPS Multi-Band

Expansion Ports	2× USB-C 4.0, 1× Metal Data Port, 1× Fiber Sync Input
Wireless Protocols	ANT+, BLE, MetalSync™, and SportCommander™ integration
Mounting Options	Modular rack / wall / portable configuration

3. Compatible Sensors and Modules

The SportGameUltra999 supports a virtually unlimited number of external sensors and devices, both wired and wireless, ensuring full interoperability with professional and consumer-grade sports systems.

Module Type	Main Function
BioMotion Sensors	4D motion tracking with angle, rotation, and speed mapping
Cardio-Metabolic Sensors	Continuous heart rate, HRV, SpO ₂ , and body temperature monitoring
ScubaDive Ultra™ Module	Real-time diving analysis: depth, nitrogen levels, decompression stages
Pressure and Altitude Sensors	Automatic calibration for environmental adaptation
Force and Load Cells	Measurement of joint impact, tension, and muscular effort
Environmental Sensors (MetalSense™)	Temperature, humidity, air quality, and pressure monitoring
Wearable Integrations	Full compatibility with Apple Watch®, Garmin®, Polar®, Suunto®, and Metal BioSense™ devices
GPS / GLONASS Module	Real-time positional tracking and motion heat mapping

4. Software and Advanced Features

Artificial Intelligence and Predictive Performance

- Proprietary SportIA™ engine for multi-variable analysis (over 600 simultaneous parameters).
- Predictive modeling of muscle fatigue, energy expenditure, and injury risk.
- Behavioral and biomechanical pattern learning for personalized training evolution.
- Real-time adaptation to environmental and physiological variations.

Biomechanical and Cardiac Analysis

- 4D motion reconstruction with instant kinematic feedback.
- Detection of posture, symmetry, and load distribution.
- Integrated cardiac and metabolic analyzer with recovery forecasting.
- Multi-sport calibration profiles for running, tennis, cycling, golf, swimming, and diving.

ScubaDive Ultra™ Module

- Depth, pressure, nitrogen, and decompression algorithm integration.
- Environmental safety analysis with anomaly detection.
- Auto-sync with GPS and MetalSafe™ for dive session recording.

Performance Tracking and Comparison

- Session-to-session performance comparison for individuals or teams.
- Advanced metrics: distance, resistance, velocity, rhythm variation, biomechanical efficiency index.
- Auto-generated performance reports and export in FIT / CSV / PDF / XML formats.

5. Cybersecurity and Data Protection

- End-to-end encryption (AES-256 + MetalShield™).
- Full GDPR compliance with anonymous athlete profiling.
- No third-party data sharing or external cloud dependency.
- Dual-factor authentication and TitanLock™ hardware security system.

6. User Interface and Management

Parameter	Description
Control Software	SportCommander™ Suite (Windows / macOS / Android / iOS)
User Interface	Interactive 3D dashboard with real-time biometric visualization
Reports & Analytics	Dynamic graphs, comparative timelines, predictive indicators
Voice Control	Compatible with Alexa®, Google Assistant®, and Siri®
Remote Access	Full control from CPU, tablet, smartphone, or smartwatch
Notifications	Custom alerts for fatigue, hydration, heart stress, or training milestones

7. Integration and Compatibility

- Full synchronization with Metal Series domotic systems.
- Interoperability with Home Assistant, Apple Health, Strava, and TrainingPeaks (via API bridge).
- Integration with smart lighting, temperature control, and security systems for adaptive sport environments.
- Automatic data exchange with medical and physiotherapy devices for rehabilitation analysis.

8. Options and Customizations

Custom Finishes: Titanium Grey, Graphite Black, Arctic Silver, Pearl White

Installation Type: Fixed (wall/rack) or portable with modular configuration

9. Services and Support

- On-site setup and calibration of sensors and hardware modules
- Certified technical installation and safety testing
- User training for athletes, coaches, and medical staff
- Predictive maintenance via MetalSafe™ Cloud
- 24/7 remote assistance and firmware updates
- Warranty: 3 years (extendable up to 7 years with MetalCare™ program)