

INTELLIGENT IMPACT-REDUCING HELMET SYSTEM

NEXT GENERATION PROTECTION
REAL-TIME AWARENESS
ULTIMATE CUSTOMIZATION



MODULAR SHOCK-ABSORBING PADS

External pads mounted via high-strength interfaces—snap-fit, magnetic, or threaded. Swappable for different activities, conditions, or user profiles. Available in a range of geometries (circular, rectangular, octagonal) and core materials (viscoelastic foam, gel, shear-thickening polymer). Strategically positioned based on impact risk zones—frontal, lateral, and occipital

INTEGRATED SENSOR NETWORK

Embedded triaxial accelerometers, gyroscopes, and force sensors measure: Impact force, Direction, and Point of contact. Sensors housed inside helmet shell and directly interfaced with each pad for secure event tracking. Onboard Smart Controller processes sensor data in real-time using embedded analytics. Tracks cumulative impact load, peak values, and injury-risk indicators. Delivers haptic or visual feedback instantly if a dangerous threshold is exceeded.

MOVE BEYOND HELMETS! CHOOSE INTELLIGENT ARMOR!

Connected Safety Ecosystem. Secure wireless transmission to mobile devices, tablets, or monitoring platforms. API-ready for integration into team dashboards, training systems, or emergency alert protocols. Cloud or local storage for compliance and post-incident analysis. ⚙️ Custom-Fit. Fully Adaptable. Interchangeable pads and shell overlays to meet sport-specific or mission-critical standards

Geoff McCue geoffmccue@gmail.com 785-550-8246
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