Q-Naut - Diver Biometric Device Belt

Underwater Physiological Monitoring

The Q-Naut is a torso-worn physiological monitoring system engineered for Navy divers operating in extreme underwater environments. Q-Naut integrates QUASAR's patented capacitive ECG sensors with respiration, skin temperature, motion, and environmental sensors to deliver high-fidelity physiological data at depths of up to 300 feet. Unlike conventional systems that fail in conductive seawater, Q-Naut's fully waterproof architecture captures medical-grade ECG without skin preparation, enabling accurate monitoring of diver health and performance in real time or for post-dive analysis.

Q-Naut in Use

Q-Naut Benefits

- **Reliable underwater ECG** – Provides medical-grade ECG in seawater without gels, membranes, or skin prep.
- **Mission safety** – Detects hypoxia, cardiac irregularities, thermal stress, and other physiological risks during dives.
- **Performance optimization** – Enables research-driven improvements in diver endurance and decompression strategies.
- **Data-rich platform** – Supports post-dive incident analysis, operational assessments, and research.

Your Applications

QUASAR, an experienced DoD contractor, developed Q-Naut under Phase II Navy SBIR funding. Applications include:

- Diver training and readiness monitoring
- Underwater cardiac and hypoxia research
- Incident analysis and decompression research
- Integration with dive computers and life-support systems

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