

We advance sensing innovation by integrating smart health technologies with IoT connectivity. Our flexible sensing platforms enable applications across patient monitoring, medical wearables, and high-performance sports systems. With scalable architectures—from discrete sensors to fully mapped matrices—we ensure solutions that evolve in step with emerging technologies and customer roadmaps.



Application Scenarios

Continuous Skin Monitoring & Care: Texensor Patient Bed Monitoring

◆ For Patients

Pressure ulcers are preventable, yet they remain a global challenge—affecting patients in hospitals, long-term care, and home settings. Behind every statistic is a patient experiencing real discomfort, anxiety, and disruption to daily life.

◆ For Clinicians

Healthcare teams are challenged by rising workloads and clinician shortages. Pressure injury prevention depends on data-supported turning protocols, but without real-time pressure insights, repositioning effectiveness and tissue recovery after adjustments remain difficult to verify.

How it works:

- It proactively monitors pressure injury risk with an intelligent mattress system, or seamlessly integrates as a sensing overlay to retrofit existing mattresses for continuous monitoring.
- It identifies at-risk patients and precise problem areas through intuitive visual mapping and actionable alerts, while tracking personalized turn plans with real-time visibility at both bedside and nursing station for coordinated care.
- It optimizes pressure redistribution with an advanced support surface and manages skin moisture within an optional controlled microenvironment to help reduce associated risks.
- It verifies prevention efficacy and enhances healing management through aggregate reporting, ensuring full compliance with turn protocols.



Data-Driven Footwear Technology: Texensor Intelligent Insoles

◆ For Patients

Recovering from foot injuries often lacks visibility and control. Without real-time insight into gait and pressure distribution, patients unconsciously shift weight to the knees, hips, or lower back—causing secondary discomfort and slowing recovery. Traditional tracking depends on infrequent check-ins and subjective feedback, leading to unclear timelines and lower patient engagement.

◆ For Athletes

Optimizing athletic performance is a complex endeavor that extends far beyond speed and strength. Dynamic biomechanics are hard to measure with real-world relevance, while early signs of injury risk frequently escape detection. Similarly, training often lacks personalization due to insufficient data, and the recovery process itself is difficult to quantify with objective clarity.

How it works:

- It captures and visualizes real-time plantar pressure and gait data for high-resolution movement analysis.
- It generates dynamic pressure distribution maps during walking, running, and jumping to enable gait assessment and performance optimization.
- It identifies stride variations through intelligent gait analysis and provides automated comparisons to validate interventions and outcomes.

Choose Texensor with Confidence



High Accuracy & Long Service Life

Maintains accuracy within $\pm 10\%$ full-scale error after tens of thousands of loading cycles.



Ultra-Thin, Highly Flexible Form

Conforms to complex and curved surfaces while maintaining durability and precision.



Proven Strength & Longevity

Built with industrial-grade materials and rigorously stress-tested for reliable performance in demanding environments.



Invisible Surface Integration

Embeds seamlessly within product surfaces for a clean, integrated aesthetic and user experience.



Adaptive for Clinical Applications

Supports rehabilitation, diagnostic evaluation, therapeutic footwear, diabetic ulcer prevention, and balance improvement for older adults.



Fully Customizable Design

Engineered to match exact specifications, enabling bespoke configurations aligned with product direction and requirements.

About Texensor

Texensor transforms everyday fabrics into adaptive, multifunctional sensing platforms—delivering precise pressure measurements, high-fidelity visualization, and intelligent data insights.

We power next-gen, fully customized solutions for leading enterprises across automotive, smart homes, healthcare, robotics, and beyond.



100+ Cross-Industry Projects

Deliver custom-engineered solutions backed by proven, real-world expertise.



2,000+ sqm In-House Factory

Guarantee quality control and agile production through full vertical integration.



10 Years of Focused R&D

Drive sensing innovation with a team where 40% are dedicated engineers.



Accredited In-House Labs

Ensure performance, reliability, and durability with rigorous testing workflows.



Full-Cycle Technical Partnership

Support your product from initial design to seamless integration and long-term deployment.

