

ForeSite® Intelligent Surface

Patient Bed Monitoring

The ForeSite® Intelligent Surface (IS) is an AI-powered continuous skin-monitoring overlay system that enables clinicians to individualize care, improving patient safety and reducing staff workload.

The prevention of pressure injuries requires a knowledge-based patient turn regimen—but without the ability to see where those pressures exist, there is no way to know for sure how best to adjust the patient’s position, or whether the patient’s move has relieved the elevated pressure and allowed the tissue to re-oxygenate.



KEY BENEFITS

LEAD IN PATIENT SAFETY

- Continuously monitor skin risk and pressure or enhance existing mattresses with the overlay system.
- Validate that patient repositioning has effectively redistributed pressure and reduced the risk of injury using real-time pressure images.

IMPROVE STAFF WORKLOAD PRODUCTIVITY

- Identify the highest-risk patients and body regions using detailed image visualizations.
- Confirm effective prevention and improve healing management.
- Ensure compliance with turn guidelines.
- Support continuous improvement and research with aggregate reporting.

INDIVIDUALIZE PATIENT CARE WITH AI/ML

- Track individualized patient turn plans at the bedside and nursing station.
- Use display pressure markers to clearly identify areas of the body under sustained pressure.



KEY FEATURES

OVERLAY

- The overlay uses more than 1,500 undetectable integrated sensors.

VIEWER

- The bedside viewer software uses a touchscreen monitor that displays real-time pressure images and a turn clock to visually notify the clinician when it's time to adjust the patient's body position.

DASHBOARD

- A centralized dashboard provides real-time, detailed injury risk and turn history for all monitored patients.

REPORTING

- The cloud database provides access to individual and multi-patient history reports for compliance review and the development of best practices.

SPECIFICATIONS

SENSOR	
Accuracy:	±2 mmHg
Sensing Area:	30" x 74" (76.2 cm x 188.0 cm)
Pressure Range:	0.1-3.9 psi (5 mmHg to 200 mmHg)
Spatial Resolution:	1.25" (3.18 cm)
Sampling Frame Rate:	3 frames/second
Input Power:	USB, 5 V
Operating Temperature:	50°F to 104°F (10°C to 40°C)
Relative Humidity:	10-80% at 88°F decreasing linearly to 50% at 104°F

ForeSite IS is IEC 60601-1 certified



The ForeSite IS features over 1,500 flexible pressure cells and a disinfectable cover compatible with most hospital mattresses.

OUR PLATFORM

INTELLIGENT DYNAMIC SENSING

The platform behind our continuous skin-monitoring products, Intelligent Dynamic Sensing, enables precise measurements and delivers highly detailed visualizations and smart data with AI-powered analysis — resulting in optimized performance, comfort, and safety.



Maximum performance sensing



Real-time data measurement and highest-quality visualizations



AI-powered data analysis and optimization

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Learn More
or Schedule a
Demonstration

