ForeSite®
Intelligent Surface

Patient Bed Monitoring

ForeSite® Intelligent Surface (IS) is an AI-powered continuous skin monitoring mattress system that allows clinicians to individualize care which improves patient safety and reduces 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 with mattress system or enhance existing mattresses with overlay.
- Validate patient repositioning has effectively redistributed pressures and reduce the risk of injury with real-time pressure images.

IMPROVE STAFF WORKLOAD PRODUCTIVITY

- Identify 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 that have been under sustained pressure.

KEY FEATURES

MATTRESS

- Sensor-enabled advanced pressure redistributing surface. Proprietary multi-zone mattress design composed of pressure relieving foam.

OVERLAY

- Overlay uses more than 1500 undetectable integrated sensors.

MICROCLIMATE

- Optional active microclimate layer uses positive airflow combined with cleanable vapor-permeable cover to manage moisture.

VIEWER

- 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

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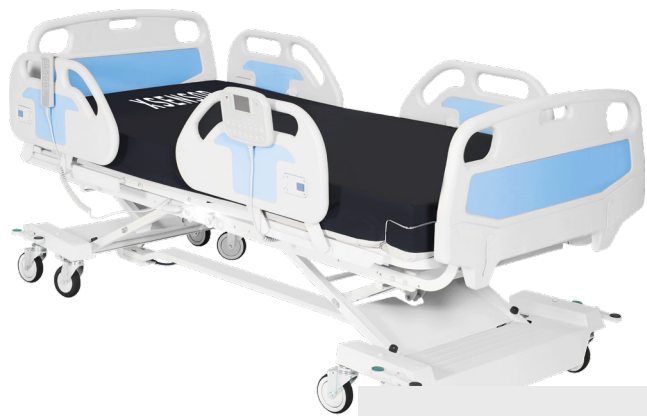
REPORTING

- Cloud database provides access to individual and multi-patient history reports for compliance review and development of best practice.

FORESITE INTELLIGENT SURFACE SPECIFICATIONS

SENSOR	
Sensing Area:	30" x 74"
Sensor Resolution:	1.25"
Pressure Range:	5 mmHg to 200 mmHg
Accuracy:	± 2 mmHg
Input Power:	USB, 5V ±10%
Operating Temperature:	50° to 104°F
Relative Humidity:	10-80% @ 88°F decreasing linearly to 50% at 104°F
Sampling Rate:	3 frames per second

ForeSite IS is IEC 60601-1 certified

ForeSite IS has over 1,500 flexible pressure cells and a disinfectable cover that is compatible with most hospital mattresses.

OUR PLATFORM

INTELLIGENT DYNAMIC SENSING

The platform behind our continuous skin monitoring products, Intelligent Dynamic Sensing (IDS), enables precise measurements and features 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

XSENSOR