

Intelligent Insoles Clinical

Clinical Gait Assessment

The Intelligent Insoles | Clinical is a plantar pressure and gait measurement system designed for clinicians to objectively assess foot function, loading, and gait during real-world movement.

Accurately evaluating plantar loading and gait in clinical populations can be complex, particularly when assessments are limited to brief, artificial walking trials. Traditional tools often lack the ability to capture repeatable, objective data during functional movement. Intelligent Insoles | Clinical enables clinicians to measure natural gait, quantify change over time, and validate treatment decisions with confidence, supporting improved clinical outcomes.



KEY BENEFITS

CAPTURE PLANTAR PRESSURE & GAIT DATA IN MINUTES

- Record plantar pressure and natural gait quickly with reliable wireless sensors. View live pressure and gait data in real-world settings.
- High-quality plantar pressure data enables clinicians to confidently zero in on pressure and load concerns.
- Integrated inertial measurement unit (IMU) and pressure data provide accurate temporal measurements for functional gait assessment.

VISUALIZE & MEASURE IN REAL TIME

- Practical, user-friendly software tools help visualize pressure distribution, the center of pressure (CoP), and gait lines in real time.
- Automated stance detection and detailed statistics simplify single or multi-step gait analysis.

COMPARE & VALIDATE TREATMENT DECISIONS

- Ensure accurate diagnoses using detailed plantar pressure and gait data. Easily customize visuals and statistics with flexible zone tools.
- Detect stride variations with intelligent gait analysis. Assess and validate interventions with automated comparisons, generating detailed reports effortlessly.

SHARE DATA & COLLABORATE WORLDWIDE

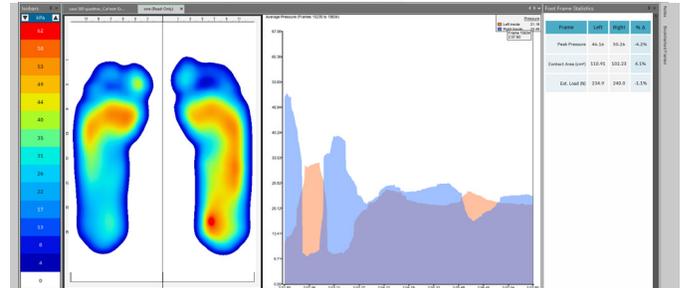
- XSENSOR's Clinical Cloud software feature provides a secure, HIPAA-compliant database.
- Access your data in the clinic or remotely through an efficiently organized, clinician-focused interface.

SPECIFICATIONS

INSOLE SENSOR	
Accuracy:	±5%
Thickness:	<2.0 mm
Pressure Range:	1-128 psi (0.7-88.3 N/cm ²)
Resolution (Varies by shoe size):	7 mm (235 sensels/sensor)

SENSOR SIZING							
	XXS	XS	S	M	L	XL	XXL
US (Men)	2/3	4/5	6/7	8/9	10/11	12/13	14/15
US (Women)	3.5/4.5	5.5/6.5	7.5/8.5	9.5/10.5	11.5/12.5	13.5/14.5	15.5/16.5
EU	33/34	36/37	38/39	41/42	43/44	45/46	47/48
JAPAN	20/21	22/23	24/25	26/27	28/29	30/31	32/33

ELECTRONICS (ON-SHOE)	
Sampling Rate:	150 Hz
Wireless:	Bluetooth*
IMU:	6-axis
Size:	1.7 cm x 4 cm x 5.5 cm
Weight:	42 g



CLINICAL FOOT & GAIT SOFTWARE

SOFTWARE	
Desktop Software:	<ul style="list-style-type: none"> Flexible, full-featured software designed with clinicians in mind High-resolution 2D and 3D images Customizable graph and statistics presentation Intelligent gait analysis Automated compare mode User defined foot zone templates Tailor-made report formats
Clinical Cloud:	<ul style="list-style-type: none"> Secure HIPAA-compliant database Organize and access client history from anywhere Compare previous data and current data in a seamless interface

OUR PLATFORM INTELLIGENT DYNAMIC SENSING

The platform behind our human performance products, Intelligent Dynamic Sensing, 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

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Learn More
or Schedule a
Demonstration

