

## Intelligent Insoles Pro

Human Performance Measurement

The Intelligent Insoles | Pro is a plantar pressure and gait measurement system for athletic coaches and sports performance professionals that captures lab-quality biomechanical and human performance data in the field.

It can be challenging to measure plantar pressure and analyze gait accurately, consistently, and in the environments where activity normally takes place: outside of the lab. In the past, capturing natural gait has been limited because current products are not suited for real-world testing.



### KEY BENEFITS

#### CAPTURE NATURAL GAIT

- Insole sensor technology built for use in the real world. Get high-resolution plantar pressure data to measure foot and gait function—wherever the activity takes place.
- Accurate, repeatable sensors—plus high-resolution data and high-speed collection with integrated IMU capability—provide rich datasets for analysis.

#### LAB-QUALITY DATA

- Industry-leading sensor technology provides accurate, reliable, and repeatable data with outstanding image quality.
- Advanced AI-powered gait analysis tools provide insights for human performance or biomechanics research.

#### EFFICIENT DATA COLLECTION

- Reliable sensors, electronics, and software can be set up in minutes—and with no recalibration needed, you can focus your time on collecting and analyzing valuable data.
- Wireless, compact on-shoe electronics and undetectable sensors simplify data collection in long-duration, multi-participant studies and the evaluation of patients with limited mobility.
- Durable construction and factory calibration mean the sensors are reliable for continuous use in research and sports performance testing.

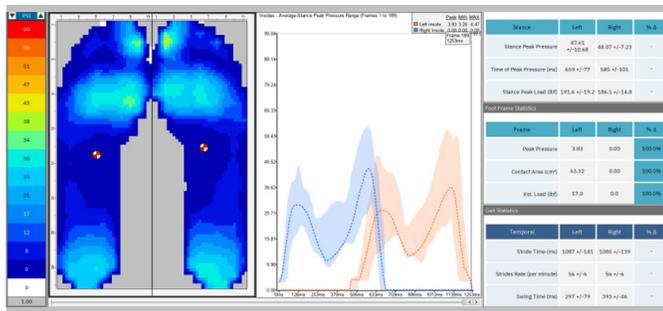
# SPECIFICATIONS

INSOLE SENSOR	
Accuracy:	±5%
Thickness:	<2.0 mm
Pressure Range:	1-128 psi (0.7-88.3 N/cm <sup>2</sup> )
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®
Memory:	16 GB (7.5 hrs recording)
IMU:	6-axis
Size:	1.7 cm x 4 cm x 5.5 cm
Weight:	42 g

SOFTWARE	
Android App:	<ul style="list-style-type: none"> <li>• Preview</li> <li>• Record</li> <li>• Download</li> </ul>
Desktop Software:	<ul style="list-style-type: none"> <li>• 2D or 3D images</li> <li>• Pressure/load vs. time graphs</li> <li>• Flexible zone configuration</li> <li>• CoP, gait lines, &amp; cyclogram</li> <li>• Auto-gait analysis</li> <li>• Compare files</li> <li>• Flexible export options</li> <li>• Video sync</li> <li>• Customizable reports</li> <li>• Complete gait statistics</li> </ul>



## PRO FOOT & GAIT SOFTWARE

The desktop software and companion app offer flexible recording options and comprehensive tools for biomechanics professionals who want to conduct detailed analyses. Highest-quality visualizations, graphing, and detailed statistics reveal insights into gait function. Export options support external analysis of large datasets.

## 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

**XSENSOR**

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Learn More  
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