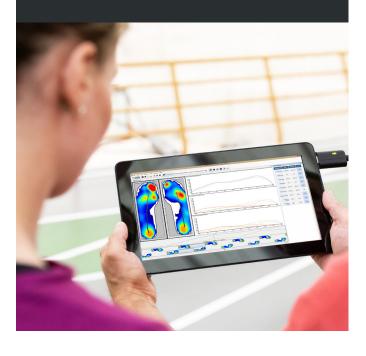# Intelligent Insoles
Pro

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 collecton in long duration, multi-participant studies, and evaluation of patients with limited mobility.

- Durable construction and factory calibration means the sensors are reliable for continuous use in research and sports performance testing.

INTELLIGENT INSOLES | PRO 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)

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

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 (Unisex)	33/34	36/37	38/39	41/42	43/44	45/46	47/48
JAPAN (Unisex)	20/21	22/23	24/25	26/27	28/29	30/31	32/33

PRO FOOT & GAIT SOFTWARE

The desktop software and companion app provide flexible recording options and comprehensive tools for biomechanics professionals who are interested in conducting detailed analyses. Highest-quality visualizations, graphing, and detailed statistics reveal insights into gait function. Export options support external analysis for large data sets.

SOFTWARE	
Android App:	• Preview • Record • Download
Desktop Software:	• 2D or 3D images • Pressure/load vs. time graphs • Flexible zone configuration • CoP, gait lines, & cyclogram • Auto-gait analysis • Compare files • Flexible export options • Video sync • Customizable reports • Complete gait statisics

OUR PLATFORM

INTELLIGENT DYNAMIC SENSING

The platform behind our human performance 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