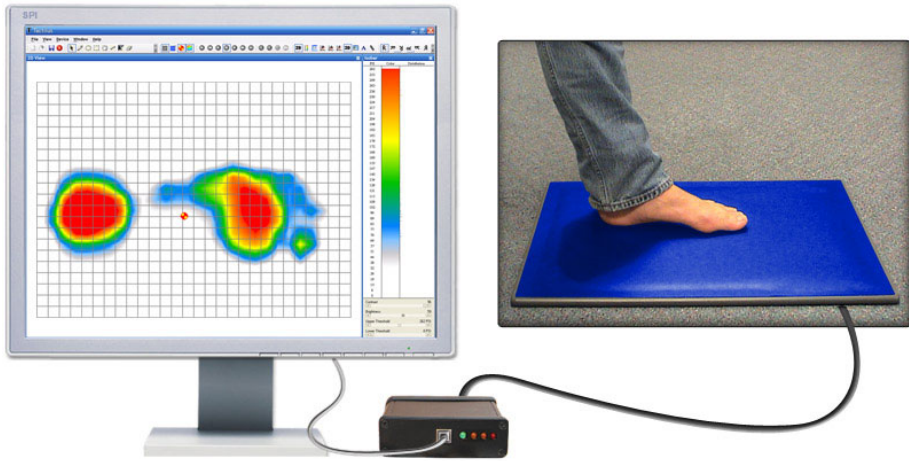


Body Mapping: Podiatry



Surface pressure profile of a person's foot on a sensor pad using the Tactilus® Body Mapping Sensor System

Tactilus® Foot Plate Analysis Systems

The different Tactilus® foot plate analysis systems provides podiatrists, orthopedists, prosthetic designers and shoe manufacturers an efficient and accurate way to assess gait analysis, foot pressure points and athletic plantar impacts during standing, walking, running, skiing and skating.

Real-time pressure profiling provided by Tactilus® enables precise and immediate evaluations of conditions related to the diabetic foot, analysis of the weight bearing capability and conformability of orthotic and prosthetic devices, and assess molt of impact effects from various bipedal locomotion activities of both feet, either exclusive of each other or in relation to each other all in ultra high speeds.

Benefits

- Pre-calibrated
- Provides real-time analysis
- Resistant to electromagnetic noise, temperature and humidity fluctuations
- Flexible and durable sensor element
- Longitudinal and latitudinal analysis
- Modular architecture with interchangeable sensor elements
- 100% customizable
- Intuitive and user friendly Windows® based software

How Tactilus® Works

The Tactilus® sensor element instantly collects pressure data and sends it as an analog signal back to an intermediary data "hub," where it is converted to a digital signal. The digital signal is then sent to an interface (software) configured for easy viewing and dynamic analysis capabilities. Tactilus®'s software provides 2-D, 3-D, isobar and pinpoint region-of-interest image viewing, graphical displays of data in bar charts, line scans and histograms, statistical analysis of average/minimum/maximum pressures, total force over any selected area, pressure vs. time and more. The data can easily be exported for further analysis in many third party softwares.

Why Use Tactilus®

This dynamic foot plate sensor employs the force sensing design principle of resistance which gives Tactilus® great advantages in both adaptability and customization. This robust sensor lasts thousands of uses with consistent repeatability, accuracy and maintains its high resistance to electromagnetic noise, temperature and humidity fluctuations. Conveniently portable, a complete Tactilus® foot plate system weighs less than ten pounds.

Sensor Specifications	
Technology	Resistive Polymer
Pressure Range	0.01 to 200 PSI (0.007 to 14.10 kg/cm ²)
Sensor Size	Up to 315 inches (8 m) long
Spatial Resolution	Customizable from 0.2 inches (5 mm)
Scan Speed	500 Hz
Accuracy	± 10%
Repeatability	±2%
Hysteresis	±5%
Non-Linearity	±1.5%
Calibration	Pre-calibrated for specified pressure