



Wheelchair Surface Pressure Mapping System V/Y-Series



 **Wireless**

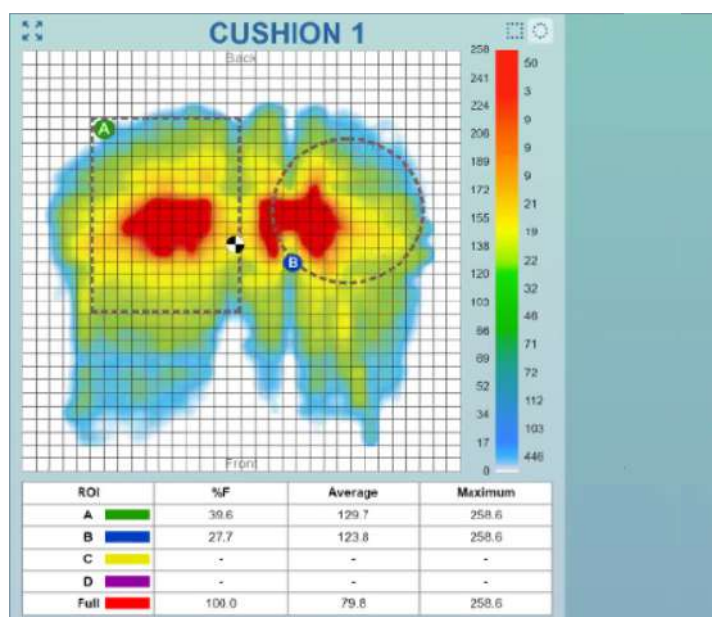
Tactilus® Wheelchair Sensor



Tactilus Technology: Tactilus is a matrix based tactile surface sensor. Essentially an “electronic skin” that records and interprets pressure distribution and magnitude between any two contacting or mating surfaces and assimilates that data collected into a powerful Windows® based software. Each Tactilus sensor is carefully assembled to exacting tolerances and individually calibrated and serialized. Tactilus employs sophisticated mathematical algorithms that intelligently separate signal from noise, and advanced electronic shielding techniques to maximize environmental immunity to noise, temperature and humidity. Our proprietary sensor design ensures the most robust sensor in the industry - an investment that will sustain thousands of uses.

Tactilus® Bodyfitter® sensor system and software is specifically designed to allow the manufacturer, retailer or outfitter to measure pressure distribution and magnitude between the patient and the seating surface.

Bodyfitter® is the most economical, scientific and user-friendly pressure mapping system available today. With the designing-for-comfort™ predictive capabilities of Tactilus Bodyfitter® software we take comfort measurement to the next level. Surface pressure mapping is particularly beneficial for analysis of obese, geriatric, diabetic and low-mobility patients in identifying restricted blood flow from imbalanced pressure distribution which is the primary cause of decubitus ulcers (bed sores). Pressure sores result from temperature build up at the skin surface of the patient and the only way to safely prevent this is to pressure map the patient to ensure they are not lying in one position without movement for too long a period of time.

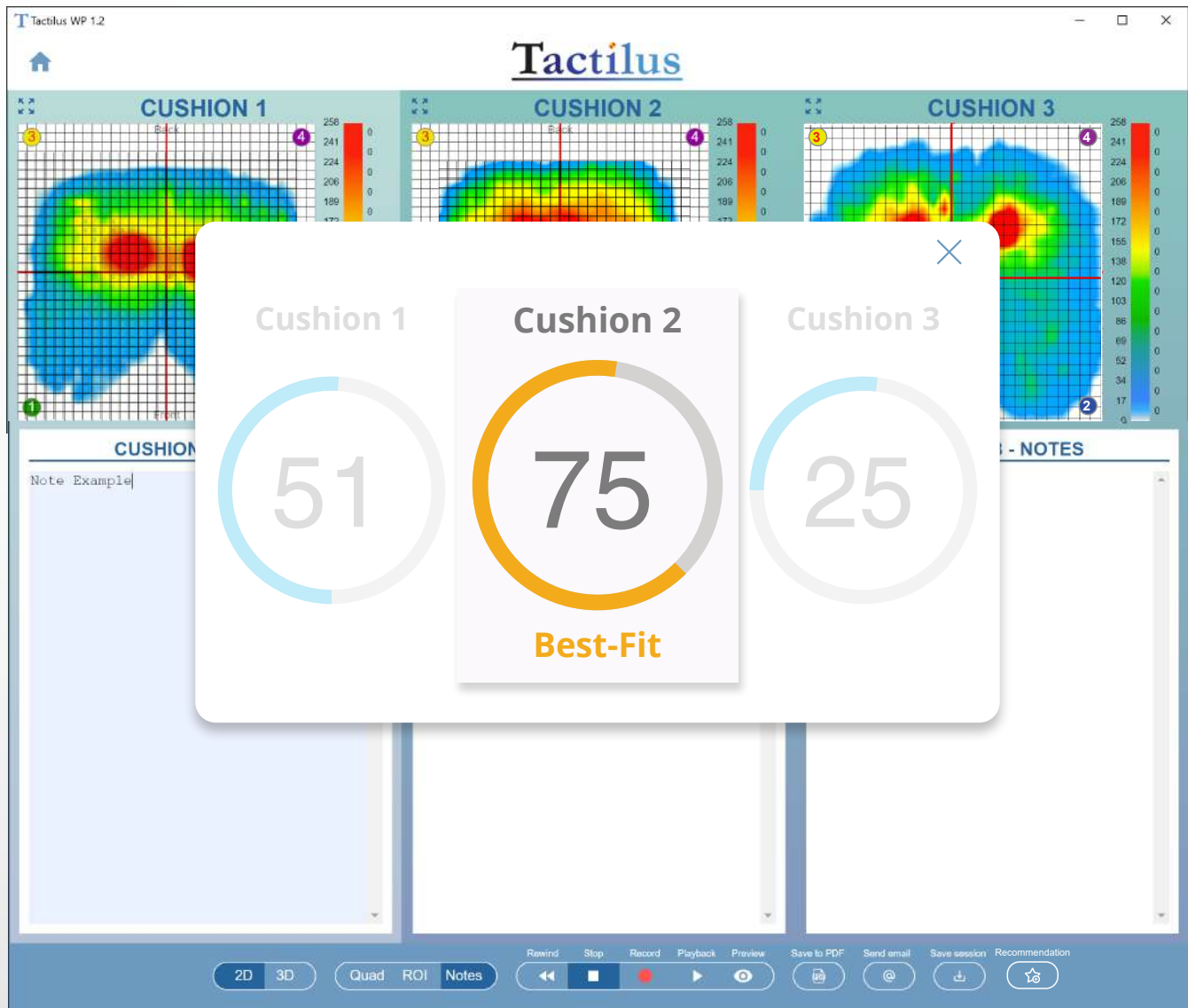


Tactilus® Wheelchair Pressure Map



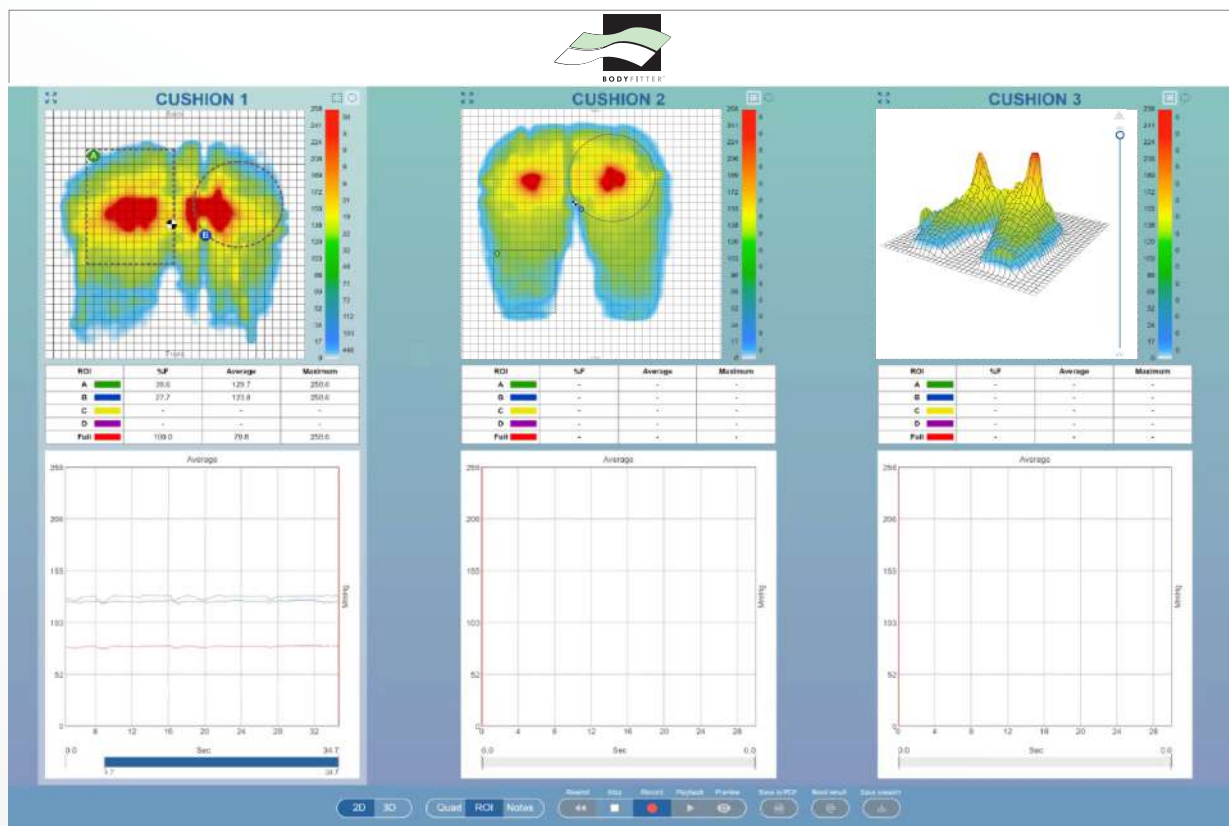
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Best-Fit Comparison Feature Screen





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Tactilus® Wheelchair Pressure Mapping System

Sensor Specifications

Technology	Piezoresistive
Transmission:	WiFi
Textile:	Stretchable
Operating System:	Windows 10
Pressure Range	0 - 5 PSI (0 - 0.4 kg/cm ²)
Matrix	32 x 32
Sensing Points	1,024
Active Sensing Area	19" x 19" (48.3 x 48.3 cm ²)
Scan Speed	Up to 30 Hz
Spatial Resolution	Custom from 0.5" (1.3 cm ²)
Thickness	98.4 mils (2.5 mm)
Accuracy	± 10%
Repeatability	± 2%
Hysteresis	± 5%
Non-linearity	± 1.5%



Stretchable



Conformable



User Friendly



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Updated 06-08-2022