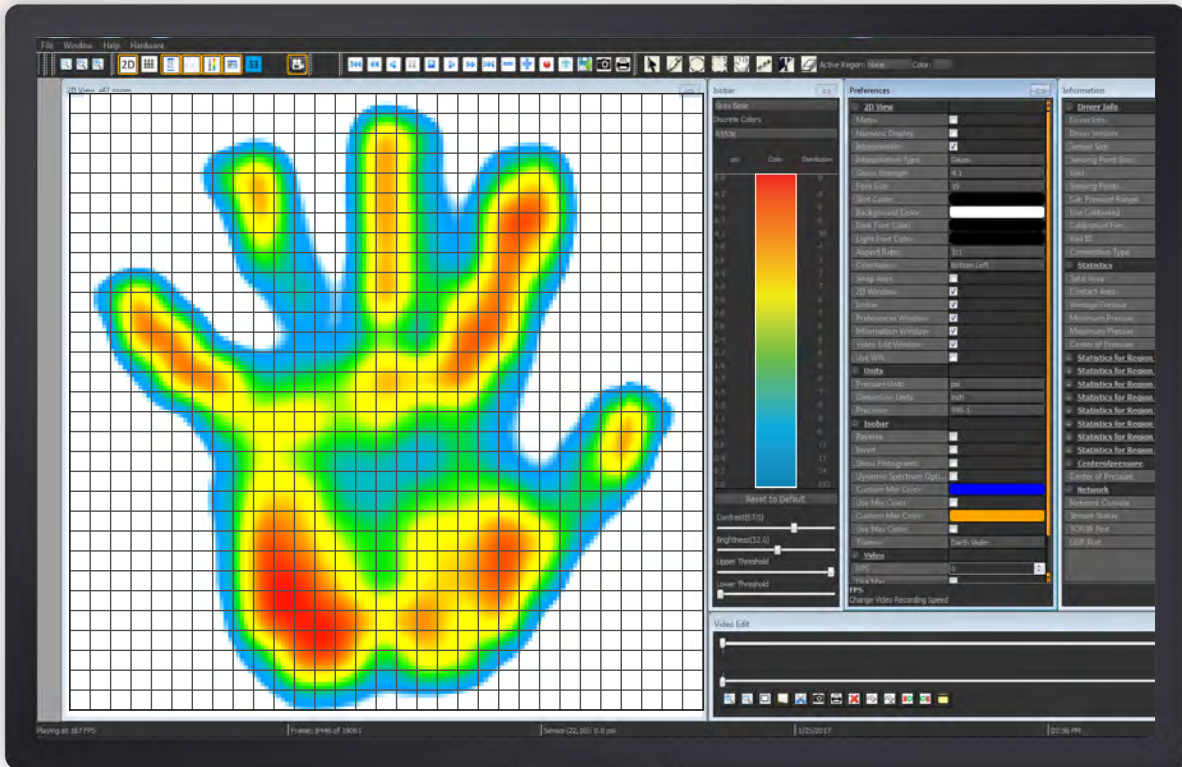


# Tactile Surface Pressure Mapping Sensor

*Highly Conformable and Stretchable*



Screenshot of Tactilus® software

## Tactilus® Technology

Tactilus® is a flexible textile and 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 the collected data into a powerful Windows® based tool kit. Each Tactilus® sensor is carefully assembled to exacting tolerances and individually calibrated and serialized.

The architectural philosophy of Tactilus® is modular, allowing for portability, easy scalability, and simultaneous data collection from up to four discrete sensor pads. Tactilus® employs sophisticated mathematical algorithms that intelligently separate signal from noise, and advanced electronic shielding techniques maximize the sensor’s immunity to noise, temperature and humidity.

# Tactile Surface Pressure Mapping Sensor



## Common Applications



### Ergonomics

biomechanics, body mapping



### Electronics

heat sink, BGA, connector, lamination, LCD bonding, wafer bonding/polishing



### Packaging

nip impression, heat sealing



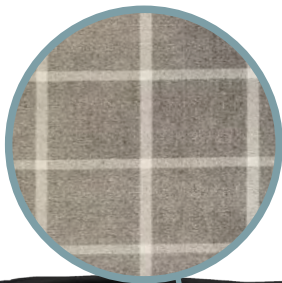
### Aerospace

composite layup, fuel cell, lamination



### Automotive

brake pad, clamping, clutch, fuel cell, gasket/bolted joint, impact study, lamination



Zoomed view of sensels



## Specifications

### Technology

Piezoresistive

### Pressure Range

0 - 100 PSI (0 - 7 kg/cm<sup>2</sup>)

### Max Matrix Size

48 x 128

### Max Sensing Points

8,192

### Max Total Sensing Area

42 in. x 150 in. (106.7 cm x 381 cm)

### Min Scan Speed

USB 190 Hz

### Sensel Pitch

From 0.18 in. (0.47 cm)

### Thickness

2.5 mm or less

### Accuracy

± 10%