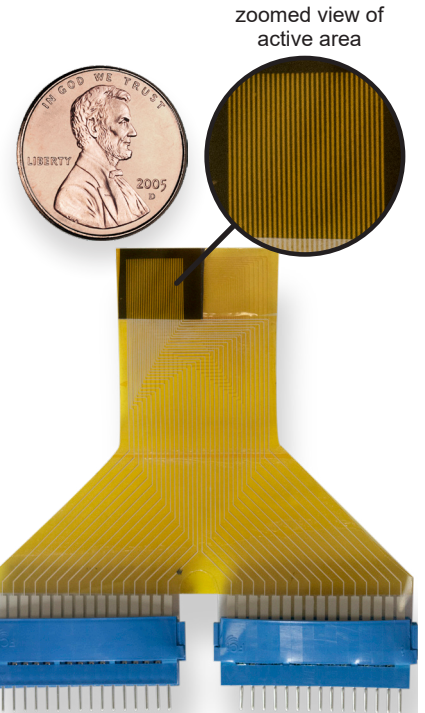
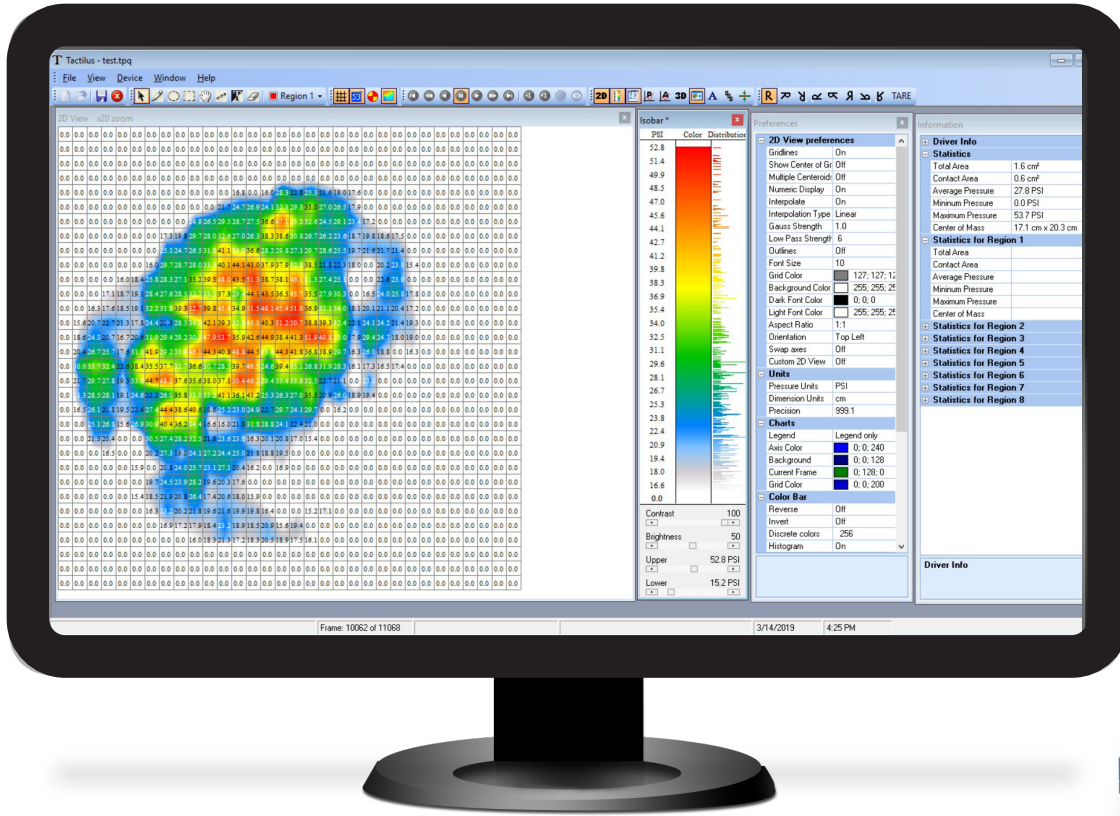
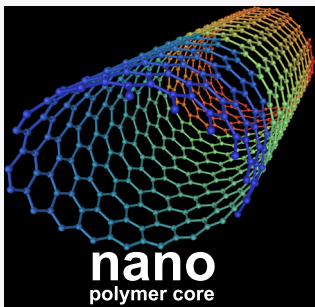


Now with an industry leading 0.4 mm pitch!



## Tactile Surface Pressure Analysis

**THE INNOVATION:** Exciting advanced in conductive ink printing have



allowed us to introduce the tightest resolution available in the market. It literally provides almost the same spatial resolution of touch sensation as the human finger! State of the art stainless steel silk screens, constructed at high-tension and made in a clean room environment are the foundation for our new ultra high density sensors.

**WHAT IT MEANS:** Tactilus® allow the user to capture and record pressure conditions occurring in between any two contacting or impacting surfaces in real time. The paper-thin Tactilus® sensor is actually placed at the contact interface where it records and assimilates both pressure distribution and pressure magnitude on your Windows® based computer.

## Common Applications



**Packaging**  
nip impression, heat sealing



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



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



**Aerospace**  
composite layup, fuel cell, lamination



**Ergonomics**  
biomechanics, body mapping

## Tactilus<sup>®</sup> Technology

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

The architectural philosophy of Tactilus<sup>®</sup> is modular, allowing for portability, easy scalability, and simultaneous data collection from up to four discrete sensor pads. Tactilus<sup>®</sup> 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.

## Specifications

### Active Technology

Nano-tubes Composite

### Surface Pressure Range

0 - 150 PSI (0 - 10.5 kg/cm<sup>2</sup>)

### Matrix Size

Up to 32 x 32

### Sensing Points

Up to 1,024 total

### Sensing Area Size

0.5 in. x 0.5 in. (1.3 cm x 1.3 cm)

### Scan Speed

Up to 800 FPS

### Temperature Capability

Up to 200°F (93°C)

### Spatial Resolution

From 16 mils (0.4 mm)

### Thickness

16 mils (0.4 mm)

### Accuracy

± 10%

### Repeatability

± 2%

### Hysteresis

± 5%

### Non-linearity

± 1.5%

### Minimum Spacing between sensing points

0.0089”(0.23mm)