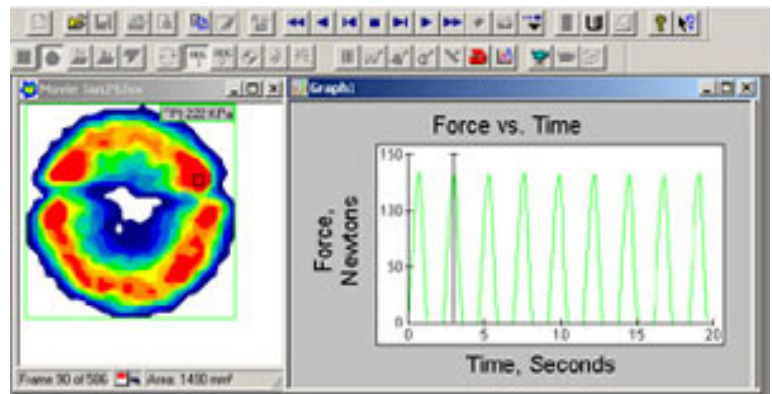


# *I-Scan*<sup>®</sup> Pressure Measurement System Features

## System Overview

### Software Features

- Display real-time and recorded data as 2-D and 3-D images
- Capture dynamic pressure data
- Play-back pressure "movies"
- Display data frame-by-frame or as a multi-frame movie
- Graph and analyze real-time or stored data (Pressure, Force, Area)
- Export ASCII file capability
- Isolate and analyze specific areas
- Display Center of Force and its trajectory
- View and compare multiple tests simultaneously
- And much, much, more!

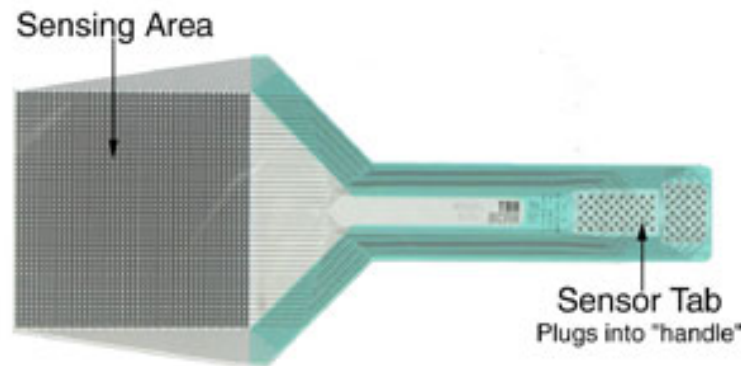


## Data Acquisition Electronics and Sensor to PC Interface

Every Tekscan Industrial system, including *I-Scan*, uses a specially designed sensor interface electronic called a "handle". The handle connects to the sensor, gathers the data from the sensor, and then processes and sends this data to your computer. The handle also connects to an interface on your PC. Tekscan offers a variety of PC interfaces including USB, Parallel, and PCI boards. Each interface product embodies sophisticated microprocessor based circuitry to control scanning sequence and frequency, adjust sensitivity, and optimize the performance of our sensors.

## Sensor Description

Below is a range of our sensor offerings. Sensors can be selected based on application specifications. Refer to our [Industrial Catalog](#) for complete sensor listing.



**No. of Sensing Elements:** Typically 2,288 (to over 146,000)

**Spatial Density:** Up to 248 sensels/cm<sup>2</sup>

Up to 1,600 sensels/in<sup>2</sup>

**Spatial Resolution:** 0.64 mm x 0.64 mm - 17 mm x 17 mm

0.025 in x 0.025 in - 0.7 in x 0.7 in

**Operating Temperature:** 15°F - 140°F (-9°C - 60°C)

**Size of Sensing Area:** 3 mm x 3 mm - 578 mm x 884 mm / 0.12 in x

0.12 in - 22.7 in x 34.8 in **Technology:** Resistive

**Calibration:** With application of a controlled force by user

**Pressure Range:** 0 - 25,000 PSI / 0-175 MPa

**Sensor Thickness:** Typically 0.1 mm (0.004 in)

## Related Products & Options

Tekscan systems provide the flexibility of adding on capabilities as your needs evolve to enhance data analysis and interpretation. Please ask us about any of the add-on options to the *I-Scan* system listed below:

**Wireless Capability** - Enables a wireless connection between your sensor/handle and your PC allowing for ultimate flexibility in data acquisition.

**[Video Synchronization](#)**<sup>™</sup> - Video sequences can be recorded and synchronized with your pressure data and visualized in Tekscan software, enhancing the utility of collected data.

**API 2 (Application Program Interface)** - API 2 software enables a user, with programming knowledge, to write programs that directly access Real-Time sensor data buffers. The user interface is preserved with API 2.

**Advanced Analysis (Polygon/Blob/Tracking Box)** - This software package includes three options for more thorough analysis, such as allowing you to add a custom shaped box or window to a Real-Time window, ability to study loaded sensels in a particular area, and the ability to add a box to a movie or Real-Time window that will follow the loaded sensels in a given area.

***I-Scan Handheld Data Logger*** - A PDA version of our *I-Scan* System that records dynamic movies capturing changes over time, making it easy to collect and store data directly from the field or assembly line.



**Equilibration/Calibration Devices** - Pneumatic devices apply a uniform pressure to the active area of a sensor to normalize output of each sensing element. The system electronically compensates for variation in individual sensing elements.

[System Overview](#)

To Request More Information or a Demonstration- [click here](#)

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