

accurate

I-Scan[®] Handheld Pressure Measurement System

System Features



New Handheld System

When small system size and portability are important in collecting pressure data, *I-Scan* Handheld is ideal for capturing contact pressure distribution. One of the many ultra-thin Tekscan array sensors is inserted between two surfaces. Scanning and interface electronics in the handle read the sensor and send data through a USB connection to the Pocket PC (PDA). A vivid, real-time, 2-D image, with color indicating different pressure levels, is displayed. Snapshot recording is controlled either by touch screen or switches on the handle.

The small size, weight, and battery power of *I-Scan* Handheld are convenient for field use.

Applications include:

- Adjusting nip rollers in converting machines
- Sealing jaws and packaging machines
- Adjusting automotive door and window seal pressures
- And many, many more.

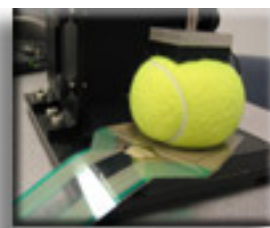
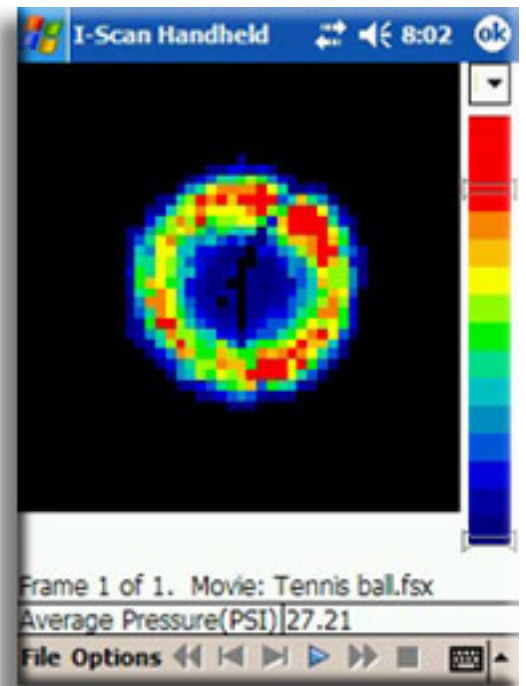
Two levels of software are available for *I-Scan* Handheld. Basic software is a subset feature of classic *I-Scan* (PC based), providing relative measurements. The Basic software is also intended for organizations that have classic *I-Scan* operating on a PC and desire additional systems for field use or more portability. With classic *I-Scan* operating on a PC with an Evolution handle, calibration and equilibration data can be downloaded to a Basic Handheld system on a PDA. After data is captured in the field and stored on the PDA, it can be displayed using classic *I-Scan* on the PC for more thorough

analysis. The Enhanced software adds calibration and equilibration capability and other *I-Scan* features making *I-Scan Handheld Enhanced* a powerful stand-alone product.

Software Features of *I-Scan*

Handheld Basic:

- 2-D display of real-time sensor output
- Displays snapshot of pressure distribution
- Saves snapshot with either automatic file naming or user entered file name
- Screen image saved as *.bmp for use in other programs
- Eight adjustable sensitivity levels - to raise or lower the pressure range of the sensor
- Text comments are saved with data files to document experimental conditions
- Show pressure - average digital output on sensor, and count of sensels at each pressure level
- Eight bit, 256 level pressure resolution
- Adjustable color key, averaging, mirroring and rotating sensor image to provide desired view
- And much, much more!



2-D view (top) of a tennis ball on calibrated 5051 sensor (left)

Additional Features in Handheld Enhanced:

- Stand-alone calibration (linear or power law)
- Equilibration improves



- uniformity of sensor response
- Tare offsets initial base load on sensor from dynamic measured load
 - Show loaded contact area & total force on sensor
 - Center of force on display

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

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