



# The I-Scan System

The I-Scan System by Tekscan is a versatile pressure measurement system utilizing Tekscan's patented thin-film pressure sensing technology. At the system's heart is a high resolution, matrix based tactile sensor capable of measuring pressures as low as 5 mmHg and as high as 175 MPa. With the help of Tekscan's qualified Sales and Engineering Support Team, each system is configured to meet specific application requirements.

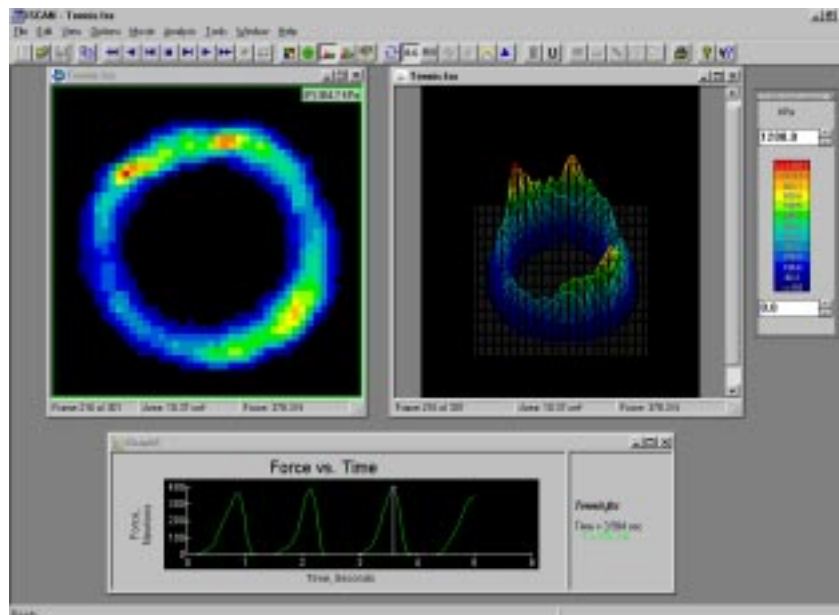
Tekscan's technology has played a key role in research and development in a wide range of industries. Its ability to deliver high spatial resolution devices (80 sensors/cm<sup>2</sup>) has lead us to measuring fiber bundle densities in the paper and felt industries. Tekscan's wide pressure range has enabled us to pursue applications varying from mattress design to stress analysis of concrete support structures. Tekscan's unique systems approach has saved companies millions of dollars in design, design verification, and reengineering costs.

## Key System Features

- Sensor Thinness (0.004", 0.1mm)
- Sampling Rates up to 127 Hz
- Various Pressure Ranges from 0-175 MPa
- 8 bit Pressure Resolution (256 levels)
- Various Sensor Densities up to 80 sencells/cm<sup>2</sup>
- Real-time and Record Capabilities
- Large Variety of Ready-to-Use Sensors
- Quality Engineering Support
- Custom Software Development
- Custom Sensor Fabrication

## Sample of Application Areas

- Seating and Bedding Pressure Profiles
- Nip and Pinch Roller Impressions
- Fabric and Material Density Measurement
- Calendar Roll Position Adjustments
- Nozzle Spray Patterns
- Fastener and Clamp Load Analysis
- CMP Wafer Polishing Pressure Studies
- Brake Pad and Shoe Pressure Measurement
- Design of Knee Prosthesis
- Gasket and Seal Analysis
- "Hi-Speed" Impact Studies
- Ergonomic Design and Comfort Studies
- Windshield Wiper Blade Pressure Analysis
- Squeegee Balancing
- Door Seal Force Measurement



## Minimum System Requirements

Pentium 75 or Higher IBM Compatible PC  
32 MB Memory  
20 MB Hard Drive space  
Windows 95™ or 98™ or NT

3.5" Floppy Disk Drive  
Available Serial, Parallel, or 16 bit ISA slot  
SVGA Color Monitor  
Color Printer (if printouts desired)