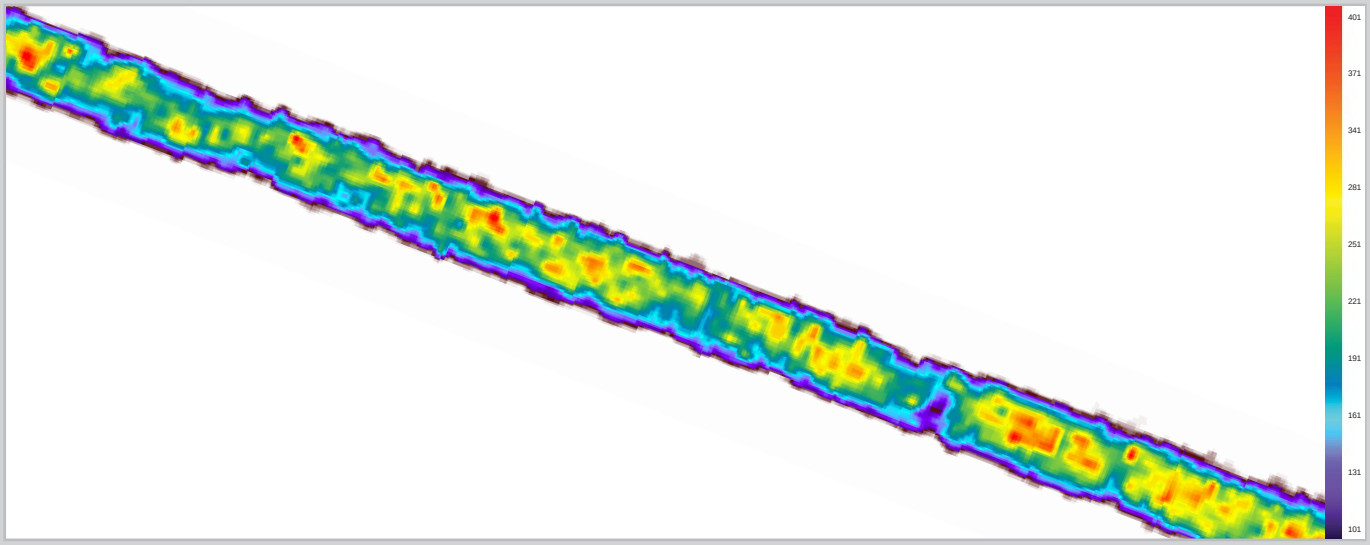
Tactilus®

DYNAMIC TACTILE PRESSURE ANALYSIS

LCD & Flat Panel Display

Accurately Determine LCD and Flat Panel Display Pressure: Tactilus® is the most powerful and efficient tool available for mapping and measuring real-time tactile surface pressure. Beneficial in the processes of research, design and quality control, this electronic pressure measurement technology precisely indicates how flat panel display surfaces deform and engage under stress. The spatial resolution of the system's sensors is fine enough to expose minute surface defects, patterns and other imperfections as well as detect lower/higher pressure areas of contact, thus improving the set up, design, materials and bonding processes during LCD manufacturing. Through the interpretation of pressure data obtained from the Tactilus® system, a designer, manufacturer or researcher of displays can accurately determine the distribution and magnitude of the pressure applied. This dynamic pressure profiling system is used worldwide by LCD display designers, manufacturers, testing labs and researchers.

Flexible, Robust and Portable: The Tactilus® sensor element captures and assimilates surface pressure statistics with high resistance to electromagnetic noise, temperature and humidity fluctuations. The system may be employed for any application where two surfaces mate, contact or impact. Not only is Tactilus® conformable to highly curvaceous surfaces and intolerant environments, but it is portable and runs on a standard laptop computer. The system comes equipped with all software and hardware necessary to collect data for comprehensive analysis.



2-D VIEW OF BONDING PRESSURE ACROSS AN LCD

Basic Features: The Tactilus® system collects pressure data and sends it as an analog signal back to an intermediary data "hub" where it is converted to a digital signal. This signal is sent to a interface software designed for easy viewing and evaluation. The Tactilus® software is Windows-based, feature rich and provides 2-D and 3-D imaging, region-of-interest viewing, longitudinal and latitudinal analysis, graphical displays of data in bar, pressure vs. time, line scan, histogram and isobar charts, statistical analysis of average/minimum/maximum pressures, total force over any selected area and more. The data may also be exported to virtually any third party software.

SENSOR SPECIFICATIONS	
Pressure Range	0.01 to 200 PSI (0.007 to 14.10 kg/cm^2)
Sensor Size	Customizable from 1 sq in. (2.54 cm^2)
Spatial Resolution	Customizable from 0.03 inches (0.8 mm)
Scan Speed	100,000 sensing points per second
Accuracy	±10%
Repeatability	±2%
Hysteresis	±5%
Non-Linearity	±1.5%

FEATURES
• 100% customizable
• Pre-calibrated for specified pressure
• Provides real-time analysis
• Resistant to electromagnetic noise, temperature and humidity fluctuations
• Flexible and durable sensor element
• Modular architecture with interchangeable sensor elements
• Intuitive and user friendly Windows® compatible software

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