

# SENSOR SYSTEM

## LARGE SENSOR ARRAY



### Product Description

This 26" x 28" flexible pad contains 44 "taxels" or independent interface pressure sensors, seated between layers of cellular foam. The sensor pad is soft and flexible yet sturdy enough to last for up to 5 years. The Large Sensor Array is equipped with digital output. A durable, black polyurethane cover encases the sensor components and electronics. The system comes with Windows data logging software and optional API. Suitable for use in:

- **industrial applications**
- **security devices**
- **clinical analysis**
- **research and development**

### An Advanced Sensing Solution

The technology behind the Tactex Large Sensor Array originated as part of a highly sophisticated custom-sensor solution. Tactex was tasked with developing a non-conductive array sensor that was able to withstand the wear and tear of daily use while maintaining a high degree of accuracy and reliability. The client specifications required that the sensor system be capable of functioning beneath an inflatable mattress while detecting range of motion and distinguishing between types of movements (full contact, partial contact, minute movement, rolling etc). In order to meet client's requirements, Tactex's engineering team designed a custom-made Kinotex fibre optic sensor pad. A series of sophisticated algorithms were implemented in software and rigorously tested by Tactex's in-house software engineers to create a complete top-of-the-line sensor system.

### Tactex Delivered...

- Low cost, non-conductive, x-ray transparent sensor component
- Custom firmware
- Sophisticated algorithm development
- Documented processes
- Quality controlled production

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Tactex Controls Inc. manufactures and designs custom tactile sensors and complete tactile sensing systems based on a patented proprietary technology called Kinotex. Contact us today to learn more about our engineering, firmware, software development and manufacturing solutions.