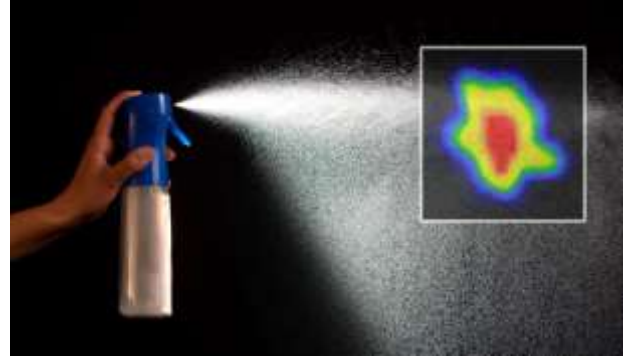




Spray Pattern Measurement System



Sample Data Display

PRODUCT OVERVIEW

The *Spray Pattern Measurement System* is a first-of-its-kind large, high-speed sensor mat designed to visualize and characterize accumulated fluid deposition information for spray processes and is able to identify where a sprayed fluid or gas actually land.

The *Spray Pattern Measurement System* was designed for manufacturing, process engineers and researchers who are working with spray and/or coating processes involving very fine mists and who need to understand specific spray patterns as part of a manufacturing or coating process to control the quality of the finished product.

Many spray process requirements are met only through “trial and error”, meaning numerous adjustments to achieve a desired result. PPS’s *Spray Pattern Measurement System* addresses this problem by digitizing, visualizing, and quantifying fluid deposition patterns that enable real-time feedback and electronic records for comparison and analysis, providing new levels of insight into spray and coating processes.

KEY SYSTEM FEATURES AND BENEFITS

- *High resolution array sensor* images the amount of fluid deposited over an area and provides instantaneous feedback for quick adjustments or analysis.
- *Ability to measure fluid deposition* even for applications in which pressure is infinitesimal.
- *Waterproofed Sensor Mat* capable of providing valuable data under any spray process conditions. This data shortens development time and helps improve the quality and cost of products and processes.
- *High performance capacitive sensing technology* saves time and improves results by significantly reducing recalibration and repeated tests allowing developers to resolve problems and answer questions faster.
- *High speed USB 2.0 interface* provides latency-free results.
- *Chameleon Visualization Software* provides intuitive, easy to use, high-quality visualization and easy access to data for analysis and export to other applications.



| SENSOR MODELS | |
|---------------------|---------------|
| Model Number | 6351 |
| Total Sensor Area | 250mm x 260mm |
| Active Sensing Area | 192mm x 160mm |
| Element Count | 1920 (48x40) |
| Spatial Resolution | 4mm x 4mm |

| SENSOR CHARACTERISTICS AND PERFORMANCE ¹ | |
|-----------------------------------------------------|-------------------|
| Signal to Noise Ratio (SNR) | 300:1 |
| Contact Surface Material | Cloth & Polyimide |
| Sensor Thickness | 0.24 in (6.1 mm) |
| Cable Length | 59 in (1.5m) |
| Operating Temperature | -5°C to 85°C |

| ELECTRONICS SPECIFICATIONS | |
|----------------------------|----------------------------------|
| Sample Rate | 200Hz |
| Computer Interface | USB 2.0 |
| ADC Resolution | 12 bit |
| Input Voltage | 5V |
| Input Power | 2W |
| Enclosure Size | 6.5x6.2x1 in. (16.5x15.8x2.5 cm) |
| Weight | 1.43 lbs. (650 g) |

SYSTEM COMPONENTS

- One Waterproofed Spray Pattern Sensor with USB 2.0
- Chameleon Visualization and Data Acquisition Software
- Synchronized video capture function and hardware
- Remote Installation and Training

¹ Performance numbers are for typical system response. Actual performance may vary.