

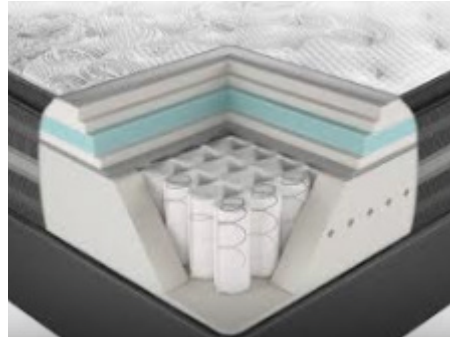
Design Better Mattresses with the X3 Mattress R&D System

Mattress design is a complex craft.

The science and art of using new technologies and combinations of materials has added to the challenge of evaluating and validating mattress designs.

XSENSOR's X3 Mattress R&D System was specifically engineered to meet the unique needs of mattress designers. We developed this tool to complement your design process and help you create a better product. There's a reason the world's top mattress manufacturers use our system to evaluate and verify the durability, comfort, and support of new mattress concepts and prototypes.

Whether you're designing consumer mattresses, advanced hospital beds, or surgical surfaces, the X3 Mattress R&D System is the tool you need to analyze and validate today's more complex mattress construction.



Leading edge design requires advanced tools in pressure mapping technology for insight into the performance of the materials and validation of the design.

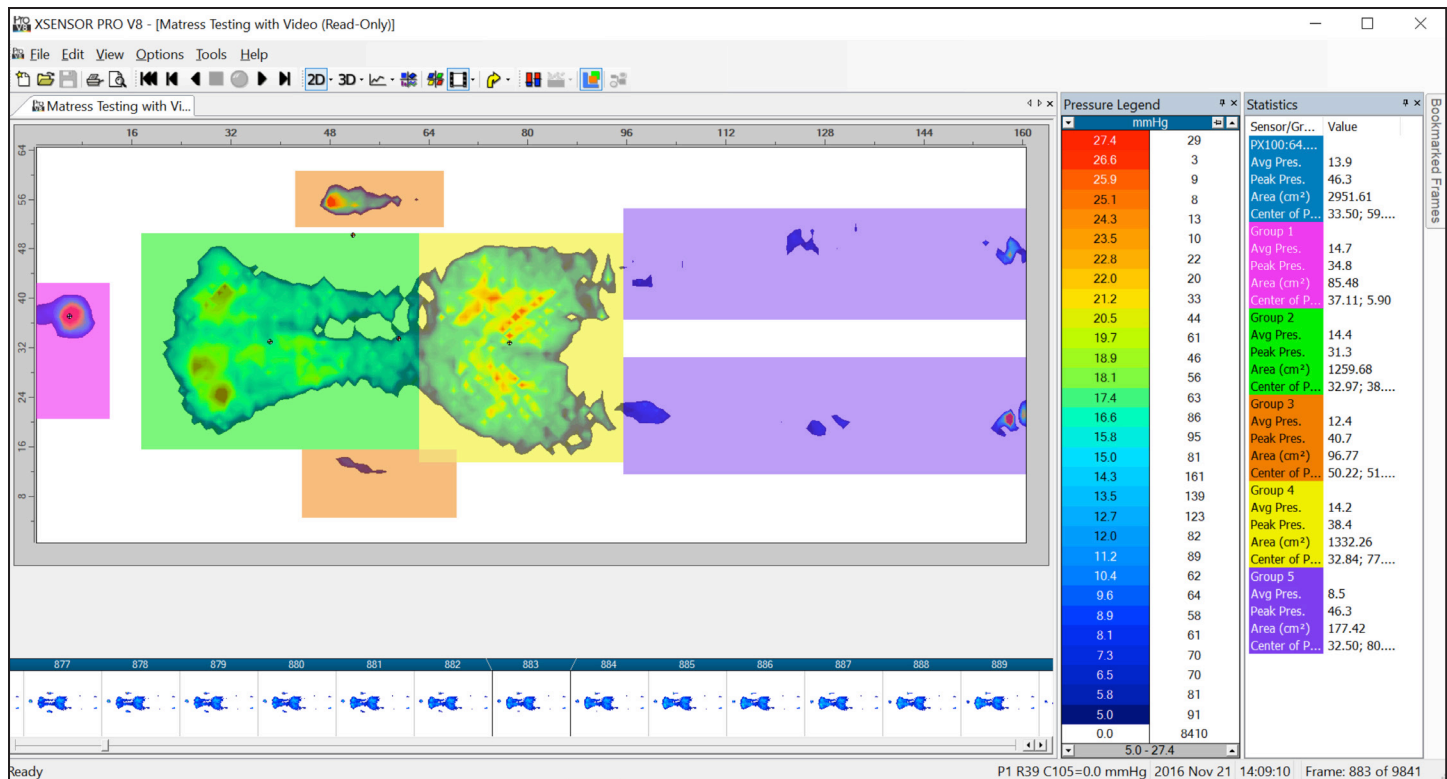
Have confidence in your mattress designs.

The best mattresses are tested using the most advanced pressure imaging system available for mattress design. For accuracy, calibration stability, conformability, image quality and durability, our high-resolution sensors and software provide you the assurance your designs are effective.

The X3 Mattress R&D System delivers the most detailed statistics possible with which to compare, validate and continuously improve your designs for better pressure relief and support.



The Best Full Body Pressure Mapping System in the Industry



The ability of the X3 Mattress R&D System to gather repeatable, high-resolution, ultra-accurate pressure data on mattresses down to the pin-point, is unparalleled. It's the most sophisticated full body pressure mapping system anywhere.

High Resolution

Our pressure sensor provides superior, high-resolution images of the body surface pressures.

Flexible

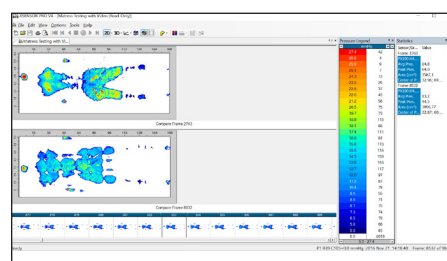
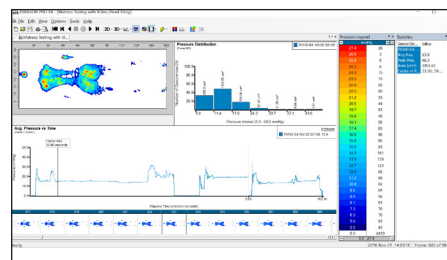
The pressure sensor is made of ultra-flexible material designed to conform to the full body, delivering accurate calculations of mattresses and mattress components.

Reliable

Composed of high-quality materials, the sensor pad and electronics are durable and responsive enough to meet the demands of mattress testing. Sensors performance is optimized to ensure low hysteresis and creep.

Accurate

High-resolution mattress sensors provide consistent data and the pressure range of 0.2-4psi delivers accuracy $\pm 10\%$ full scale. There are 10,240 sensing points with a 0.5" (12.7mm) pitch (resolution). Each sensor is calibrated to 5–100mmHg or 10–200mmHg.



Software for Detailed Analysis

Gather comprehensive, high-resolution pressure images and evaluate design options with powerful analytical and reporting tools.

Pro V8 software provides mattress designers with a complete toolkit for recording pressure over time, identifying sensor groups for detailed study of specific body areas, extensive features for comparison and data export for external analysis.

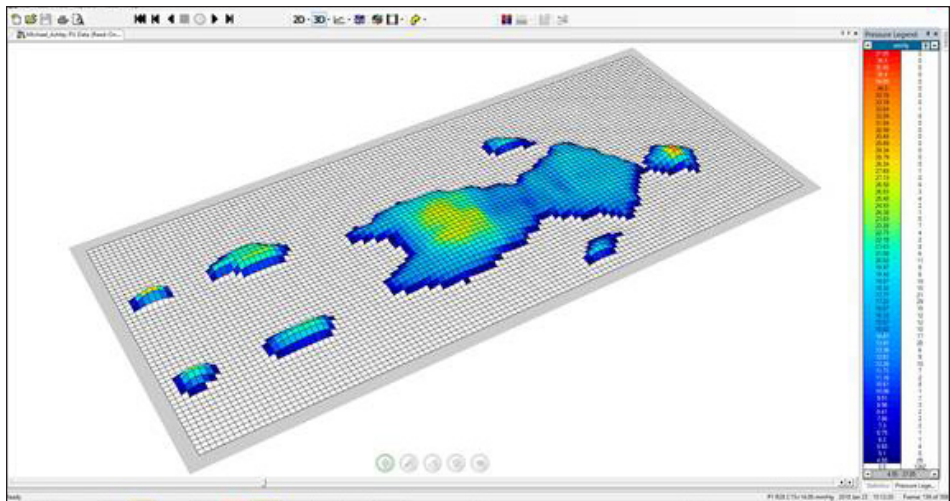
The combination of imagery and data lets you quickly evaluate and compare different design options so you can validate changes as you go, making the modification process both precise and efficient.

Superior Technology for Superior Results

Specifications & Performance

With up to 10,240 sensing points at 0.5" (12.77mm) resolution, the high-resolution sensor lets you compare, validate, and continuously improve your mattress designs for better pressure relief and support.

Our high-resolution sensors are known for accuracy, durability and repeatability. Sensors have low hysteresis, provide consistent data and are calibrated to 5-100 mmHg or 10-200 mmHg, with accuracy +/- 10% full scale.



Sensor Model	Sensel Size	Sensing Area	Calibration Range	Resolution
PX100:26.64.01	25.4mm	81.2cm x 203.2cm	5-100 mmHg	Low
PX100:48.144.02	12.7mm	60.9cm x 182.9cm	5-100 mmHg	High
PX100:64.160.02	12.7mm	81.3cm x 203.2cm	5-100 mmHg	High

XSENSOR is an ISO 17025 certified pressure imaging sensor manufacturer.

Unlike other sensors on the market, ours maintain their calibration due to the capacitive technology design and unique materials used to make them. Our ISO17025 accreditation means we have demonstrated competency in producing accurate test and calibration data from our sensors. Your ISO registration requires suppliers to provide verified calibrated test equipment and recalibration processes to maintain your compliance.



**AUTOMOTIVE
TESTING**



**PATIENT
SAFETY**



**SLEEP
SOLUTIONS**



About XSENSOR® XSENSOR® Technology Corporation is an award-winning innovator in the field of pressure imaging for use in sleep research, automotive testing and pressure ulcer prevention. As it has for two decades, XSENSOR® continues to develop leading edge pressure imaging technology that delivers the practical, real-world benefits of personal comfort and safety.

Learn more about XSENSOR®

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