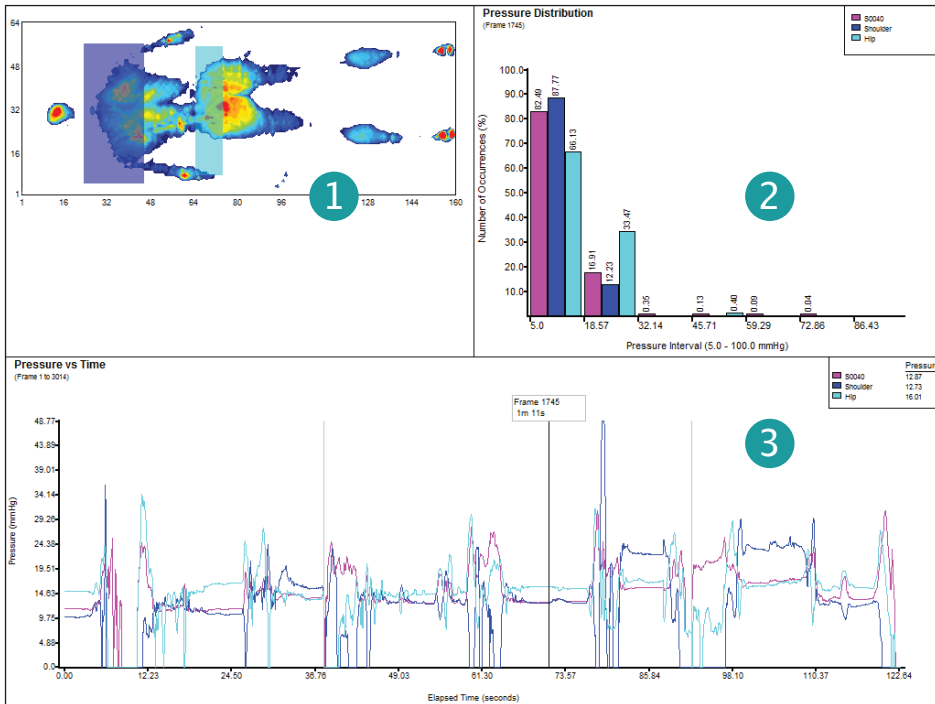# REVEAL®

By XSENSOR®

Design Better Mattresses
with the REVEAL® X3 Mattress R&D System

Want to develop a better mattress?
Use the REVEAL® X3 Mattress R&D System.

XSENSOR's most advanced full body pressure mapping system
—ideal for gathering accurate, repeatable and high resolution pressure data on mattresses.

REVEAL X3 mattress R&D system is used globally by top mattress manufacturers. It allows their mattress designers to evaluate and verify the durability, comfort and support of new mattress concepts and prototypes.

REVEAL X3 has the powerful XSENSOR V7.0 Pro Software, which generates comprehensive pressure images and gives designers a suite of analytical tools to analyze and compare results for optimal design.

❶ Measure and compare body zones

❷ Pressure distribution histogram

❸ Pressure over time

Ultra accurate to design and test mattresses.

The REVEAL X3 lets you compare, validate and continuously improve
your mattress designs for better pressure relief and support.

The sensor for the REVEAL X3 mattress R&D system is designed to provide high resolution quality images, accurate and reliable pressure data.

• high–resolution sensors with 10m240 sensing points, a 0.5" (12.7mm) pitch (resolution) and both metric and imperial sensing points

• consistent sensor performance ensures repeatable measurements and reliable data

• low hysteresis and creep

• designed to meet the needs of mattress designers

• calibrated to 5–100mmhg or 10–200mmhg

REVEAL® X3

is a conformable full body pressure sensor used for accurate testing of mattresses and mattress components. Its durable design withstands thousands of assessments.

Flexible
Made of ultra–flexible material to conform with the body and record data.

Reliable
Composed of high–quality materials, the durable sensor pad and electronics meet the needs of product design and sophisticated mattress testing.

Accurate
The REVEAL X3 sensors are known for accuracy, durability, and repeatability. It has low hysteresis, provides consistent data, and, with a pressure range of 0.2–4psi, the accuracy is ± 10% full scale.
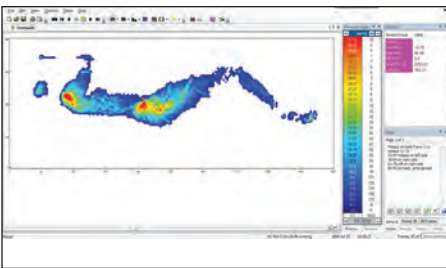
Powerful Analytical and Reporting Tools

Gather comprehensive pressure images, analyze and evaluate design options, and compare different designs.

Identify areas of high pressure and poor support. Perform image comparisons to validate design modifications.

Create sensor groups by using the custom drawing tools to define an area of the sensor as a group. By breaking a mattress down into sections, you can analyse data more closely and evaluate surfaces for their pressure–relieving abilities.
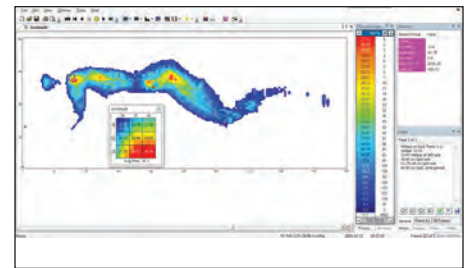
Review, record and playback detailed pressure images and use image analysis tools to evaluate sensor statistics. Reliable and accurate sensor–by–sensor data supports analysis. The sophisticated analysis tool enables user defined settings providing detailed data examination.
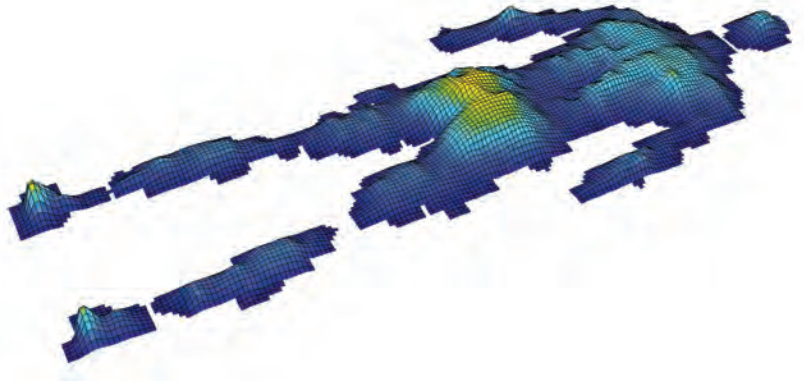

Measure pressure points

Export data to Excel

Analyze pressure over time

REVEAL X3
is the most advanced
mattress R&D system
on the market today.

SPECIFICATIONS

Sensor
· X3 PX100:64.160.02 mattress sensor
· Size of sensor array:
  81cm x 203cm (32" x 80")
· Sensor array: 64 x 160
· Sensing points: 10,240
· Resolution: 1.27cm (0.5")
· Pressure ranges:
  5–100mmhg, 10–200mmhg

Software
Xsensor PRO V7.0
· Powerful analytical tools
  to compare frames
· Create and compare sensor groups
· Record and analyze pressure over time
· Export pressure information
  as images, movies or Excel data
· Ability to choose content for reports
  and create PDF documents

Electronics
· X3 Pro Platform
· Three X3 sensor packs
· X3 power supply
· X3 USB cable

CE

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. For over 15 years, XSENSOR® has developed pressure imaging technology that delivers the practical, real–world benefits of personal comfort and safety.

AUTOMOTIVE TESTING

PATIENT SAFETY

SLEEP SOLUTIONS

Learn more about XSENSOR®

Our team at XSENSOR® is here to support you. We have developed this tool to complement your design process and help you create a better product for your customers.

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www.RevealByXsensor.com

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