

XSENSOR[®] Technology Corporation

Innovators in Pressure Imaging

X3 AUTOMOTIVE TESTING PRESSURE IMAGING SYSTEMS

XSENSOR pressure imaging systems use a combination of accurate and conformable sensors with state-of-the-art X3 software and electronics to create high-resolution interface pressure images in real-time. These combined systems, which include PRO software, X3 sensors, and X3 electronics, boast fast data-acquisition rates and 16-bit data resolution for detailed pressure images. Portable and durable, these systems are designed for rigorous testing in lab or outdoor environments and meet the highest level of standards required for product design, product performance, and manufacturing control.

XSENSOR sensors and systems are used extensively by automotive and aerospace engineers and product designers to record, view, and evaluate dynamic pressure imaging data in applications such as:

- Seat design (to assess comfort, support, functionality, and handling)
- Tire-tread analysis (tread pattern performance, contact rations, and tire comparisons)
- Wiper-blade design and manufacturing control
- Door-seal testing for seal compression tests and production/design flaws

X3 sensors provide repeatable data while maintaining long term calibration. As a result of this versatile tool and the highly accurate corresponding pressure readings, test engineers will gain more confidence in test and measurement results, improve product design, and shorten product development cycles through efficiency.

PRESSURE IMAGING

AUTOMOTIVE TESTING

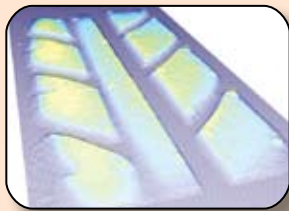
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INNOVATORS IN PRESSURE IMAGING

XSENSOR Technology Corporation is the leading innovator of advanced pressure imaging sleep, patient safety, and automotive testing solutions. Offering sensor superiority, custom solutions and X3 technology, XSENSOR is an internationally recognized leader with products in use in over 40 countries worldwide.

LEARN MORE

Visit www.xsensor.com for additional information. Please contact us directly to request additional information or to arrange for a complimentary consultation and product demonstration.



High resolution pressure image of tire tread



Durable and conforming sensors

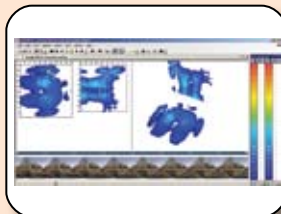


Image capture of automotive seat

SPEED & ACCURACY

X3 PRO platform has:

- Four sensor port connections
- Support for up to 12 individual sensors at one time
- A maximum acquisition rate of 400,000 measurements/second*

SUPERIOR SENSORS

X3 sensors include:

- Tire, seat, door seal, wiper, fuel cell, and custom sensors
- Spatial resolution as small as 1.15mm
- Pressure ranges up to 200 psi

ENHANCED PRESSURE IMAGING

The X3 PRO system offers:

- 16-bit data resolution
- Enhanced pressure image composition with a spectrum of over 65,000 colours

PROFESSIONAL SOFTWARE WITH PLUG & PLAY FUNCTIONALITY

X3 PRO v6.0 software:

- Records calibrated and raw data in real time
- Developed specifically for industrial research and testing applications
- Plug & play sensor configuration and calibration files
- Easy to set up and easy to use

*With an Intel Core 2 Duo processor and XSENSOR's PRO v6.0 software. Results may vary with other configurations.

X3 PRESSURE IMAGING APPLICATIONS

XSENSOR's pressure sensor technology allows you to evaluate pressure in tire applications, door seal testing, automotive and aerospace seat comfort, and durability testing.

X3 Tire System (Connects to a PC)



X3 Seat System (Connects to a PC)



STANDARD SENSORS – FLEXIBLE SENSOR DESIGN

PX100 Standard Sensor (0.014 - 0.28kg/cm² / 0.2 - 4 psi)

SENSOR #	SENSING AREA DIMENSION	RESOLUTION	SENSING POINTS
PX100:36.36.02	45.7cm x 45.7cm	12.7 mm	1,296
PX100:40.40.02	50.8cm x 50.8cm	12.7 mm	1,600
PX100:48.48.02	60.9cm x 60.9cm	12.7 mm	2,304
PX100:40.64.02	50.8cm x 81.2cm	12.7 mm	2,560
PX100:48.144.02	60.9cm x 182.9cm	12.7 mm	6,912
PX100:100.50.10	25.4cm x 12.7cm	2.54 mm	5,000
PX100:100.100.10	25.4cm x 25.4cm	2.54 mm	10,000

PX200 Standard Sensor (0.014 - 1.05kg/cm² / 0.2 - 15 psi)

SENSOR #	SENSING AREA DIMENSION	RESOLUTION	SENSING POINTS
PX200:36.36.02	45.7cm x 45.7cm	12.7 mm	1,296
PX200:48.48.02	60.9cm x 60.9cm	12.7 mm	2,304
PX200:12.12.05	6.1cm x 6.1cm	5.08 mm	144
PX200:15.30.05	7.6cm x 15.4cm	5.08 mm	450
PX200:25.100.10	6.4cm x 25.4cm	2.54 mm	2,500

IX500 Standard Sensor (0.7 – 14.1 kg/cm² / 10 - 200 psi)

IX500:128.128.10	32.5cm x 32.5cm	2.54mm	16,384
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LX100 Standard Sensor (0.014 - 0.28kg/cm² / 0.2 - 4 psi)

LX100:36.36.02	45.7cm x 45.7cm	1.27mm	1,296
LX100:40.40.02	50.8cm x 50.8cm	1.27mm	1,600
LX100:48.48.02	60.9cm x 60.9cm	1.27mm	2,304

STANDARD HIGH PRESSURE SENSORS – RIGID SENSOR DESIGN

IX500 Sensors (0.7 – 14.1 kg/cm² / 10 - 200 psi)

SENSOR #	SENSING AREA DIMENSION	RESOLUTION	SENSING POINTS
IX500:256.256.16	40.6cm x 40.6cm	1.6mm	65,536
IX500:256.256.22	29.5cm x 29.5cm	1.15mm	65,536
IX500:40.40.10	10.2cm x 10.2cm	2.54 mm	1,600
IX500:60.60.10	15.2cm x 15.2cm	2.54 mm	3,600

All sensors require **X3** PRO electronics, **X3** PRO v6.0 software, **X3** PRO sensor pack(s), **X3** USB CABLE, **X3** POWER SUPPLY, and **X3** CARRY CASE.

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