Speed and Resolution for 3D Testing

ARAMIS SRX


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Sensor for High-End Applications

ARAMIS SRX is a 3D sensor for dynamic measurement of 3D coordinates, 3D displacement and surface strain. It comprises the latest camera technology including 12-megapixel cameras. Capturing up to 2000 images per second, the sensor is especially designed for rapid testing applications.

Thanks to the combination of high resolution and high speed, the ARAMIS SRX is perfectly suited to high-end applications. Moreover, the sensor shows high stability, process reliability and usability, which is why it is primarily used in industrial environments.

www.gom.com/aramis-srx


BS GO 721

Measurement Technology for Industrial Environments

ARAMIS sensors are stereo camera systems that provide precise 3D coordinates based on triangulation. The robust housing ensures high stability with a reduced need for sensor calibration so that the 3D camera concept of the ARAMIS SRX is ideally suitable for applications in industrial environments. Exchangeable camera frames and preset and certified measuring lenses allow for a fast adjustment to different measuring areas.

Controlling the sensor using the GOM Testing Controller ensures stable communication between software and hardware. Due to the new technology, the image acquisition is controlled via trigger assignment within the cameras ensuring process stability.

GOM Data Quality

The ARAMIS SRX sensor provides point-based and full-field data for materials and components testing. The quality of the data generated by the sensor is mainly visible in the detailed representation of local effects. With its powerful light source, ARAMIS SRX generates the required luminous intensity resulting in an optimal gray value distribution and thus high accuracy of measuring data.


ARAMIS
SRX
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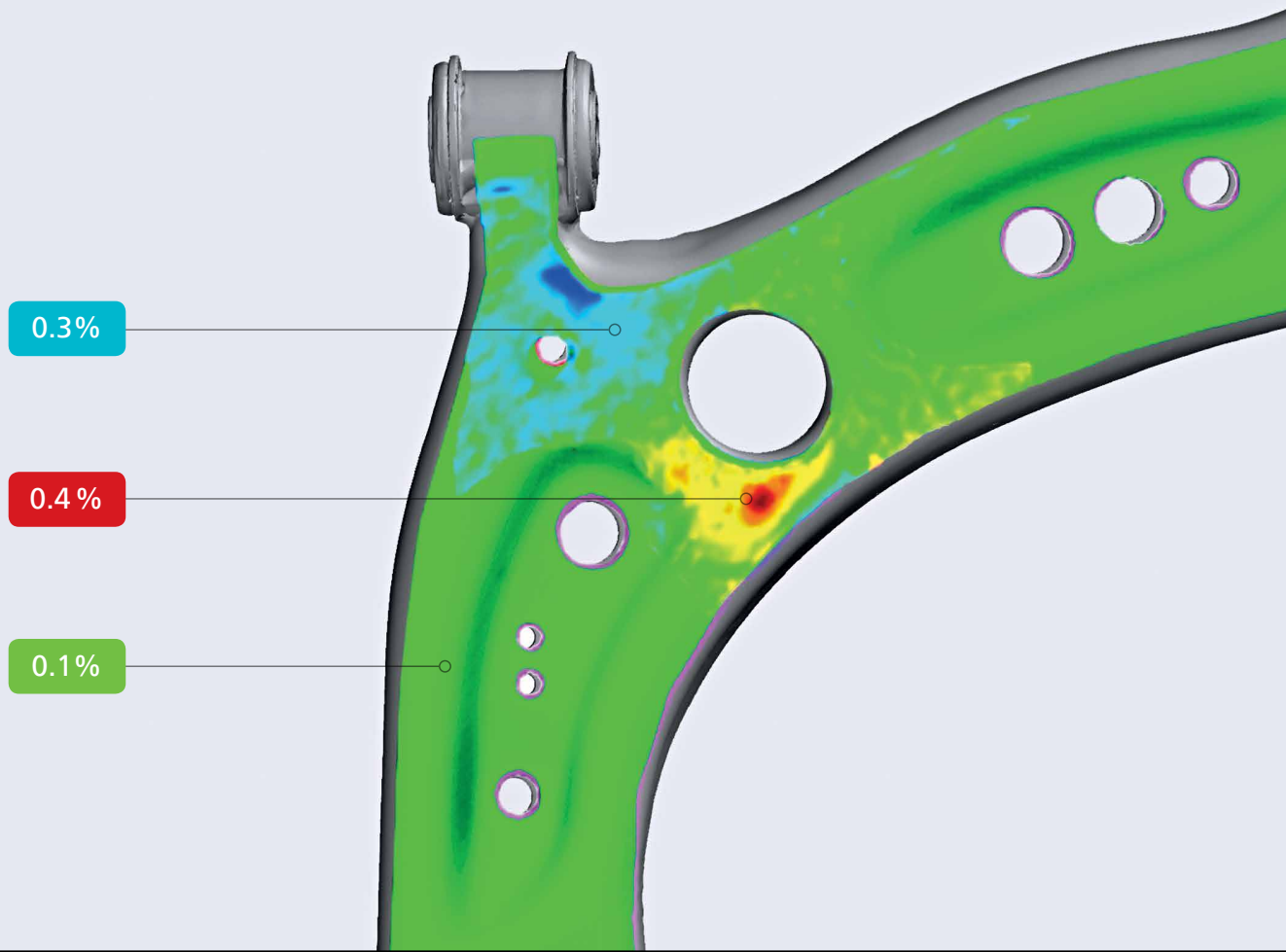
+0.094%
+0.097%

Technology

High-resolution 3D sensor With two 12-megapixel cameras and a high spatial resolution, ARAMIS SRX offers the latest camera technology. That way, local strain effects can be detected in large measuring areas and small strains can be measured. Thanks to the high resolution, small reference point markers can be used for large objects with narrow structures and small objects showing a high displacement.

3D sensor for rapid testing applications ARAMIS SRX has a maximum image recording rate of 335 Hz at full resolution. By reducing the image height, the image recording rate can be increased up to 2000 Hz. This allows capturing the failure behavior of parts in detail over time.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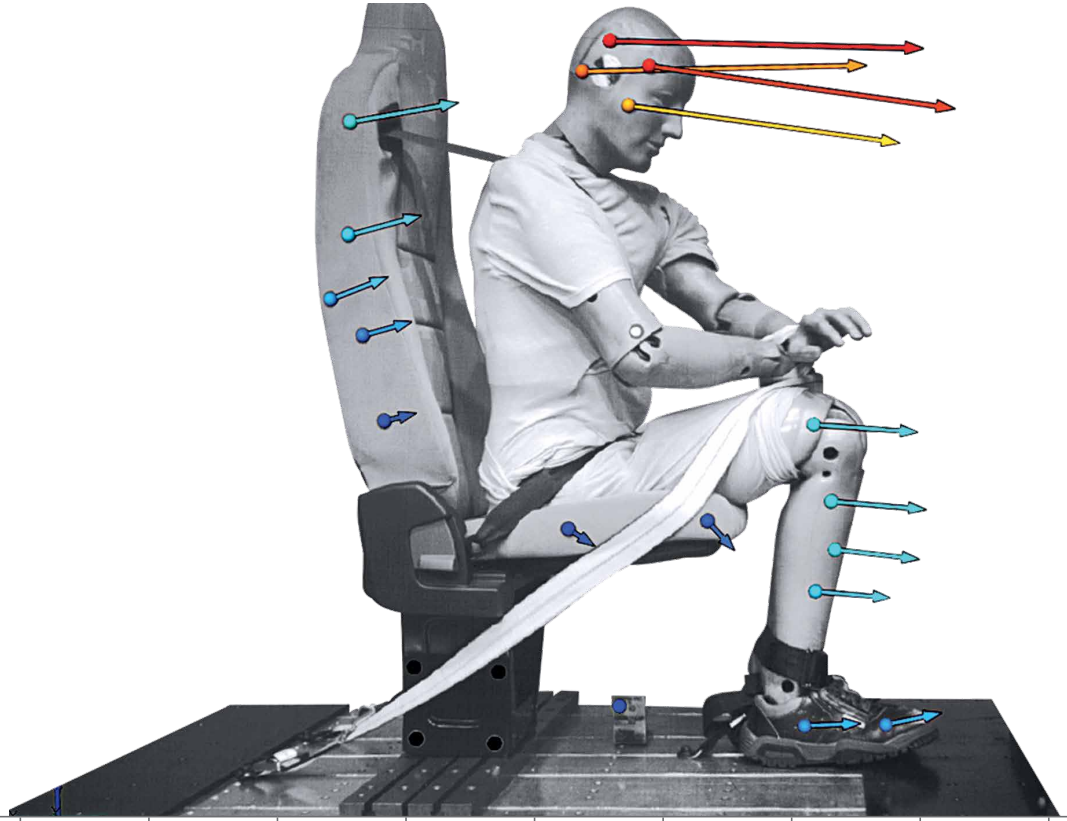
ARAMIS SRX for High-End Applications

The internal 8-gigabyte memory allows for high resolution at high speed. ARAMIS SRX is particularly designed for high-end applications, which require both capturing an event in detail over time and capturing local effects.



‹	7 6 ms	8 7 ms	9 8 ms	10 9 ms	11 10 ms	12 11 ms	13 12 ms	14 13 ms	15 14 ms	16 15 ms	17 16 ms

Setup for crash applications

The HD mode, which was especially developed for crash applications, offers an optimal image ratio in HD format with an image recording rate of 1000 Hz. It allows comprehensive analyses of high-speed sequences in high resolution.

Sensor Types

ARAMIS SRX

Robust design for
industrial environments

ARAMIS Adjustable SRX

Flexible design for
research & development

High-resolution 3D sensor
Latest camera technology with two 12-megapixel cameras

Setups for rapid testing applications
335 Hz at full resolution
Up to 2000 Hz by reducing the image height

High-end applications
Internal 8-gigabyte memory
High speed
High resolution

Crash applications
HD format
1000 Hz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