

LEAsys

Your Tool for Contact-free Ultrasonic Testing

For through-transmission, pulse-echo
and guided-wave setups



Laser ultrasonic testing.
No water. No gel.

From lab to line.
One solution.



Turnkey-system.
Ready to use.

Discover
the new era
of ultrasonic
inspection!

High-speed scanning.
High-resolution results.

Key applications:
Aerospace materials · Composites ·
Microelectronics · Welds · Batteries

hear with light - see with sound

xarion
laser acoustics

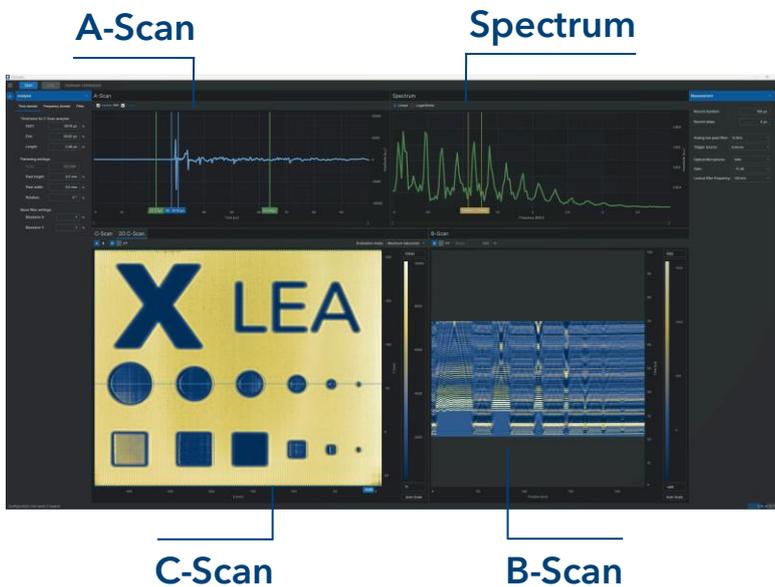
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XARION's LEA technology (Laser-Excited Acoustics) combines laser-based ultrasound excitation with a proprietary optical detector, enabling **high-resolution, contact-free testing** without water or gel.

LEAsys integrates LEA with a precision XY scanner and real-time analysis, making it ideal for non-destructive testing (NDT) of composites, metals, and adhesive joints in R&D as well as production sites for offline and inline applications. It is also available as a portable, cobot-based solution.

Scan range	3 x 3 meters (larger upon request)
Scan speed	up to 1 m/s
Step size	high resolution down to 100 µm
Detection	up to 4 MHz acoustic detection bandwidth
Excitation	Laser-induced (Class 1 system)

LEAstudio - NDT Software by XARION Smart. Fast. Intuitive.



Customizable, application-driven user workflows

Intuitive interface for easy operation

Powerful visualization (A-, B-, C-, F-Scans & 3D)

Real-time acquisition & analysis - up to 16 channels

Automation-ready: Robot & PLC integration

Advanced tools: ToF correction, filters, freeform 3D C-Scans

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