

# 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

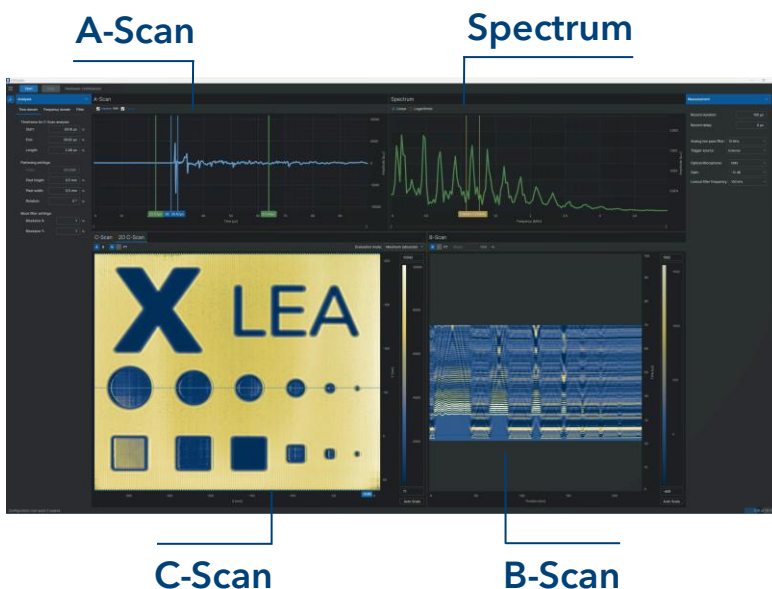
# LEAsys

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	up to 3 x 3 meters (larger upon request)
Scan speed	up to 1 m/s
Step size	high resolution down to 100 $\mu\text{m}$
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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