

# LEAsys

... your tool for contact-free ultrasonic testing



**xarion**  
laser acoustics

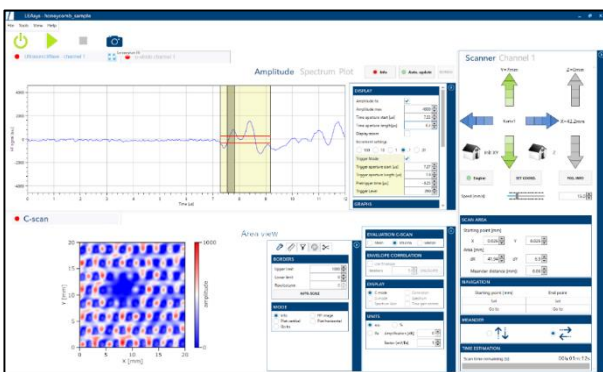
# Functionality

XARION's unique Laser-Excited Acoustics (LEA) technology enables contact-free ultrasonic testing with high resolution. The combination of ultrasound excitation by laser pulses and XARION's proprietary ultrasound detector achieves the best of two worlds: it matches today's standard liquid-coupled UT in sensitivity and resolution, while it does not require water or coupling gel. LEAsys is an integrated scanner solution combining the innovative LEA technology with a high-resolution x-y scanner and real-time data analysis software.

LEAsys is the perfect tool for R&D laboratories engaged in the nondestructive testing of composites, metals, and adhesive joints. It can be used both in a pitch-catch and through-transmission arrangement.

## Hardware features

- Excitation laser with 100, 400, or 10 000 Hz pulse repetition rate
- Detector: Eta450 Ultra optical microphone with 2 MHz bandwidth
- Minimum step size: 10  $\mu\text{m}$
- Scan range: 530 x 500 mm or 530 x 1000 mm
- Data acquisition: 14 bit resolution, 50 MHz sampling rate



## Software features

- Integrated environment for control and data analysis
- Display of A-, B-, and C-scans (real-time)
- FFT, spectral analysis (F-scan)
- Data export to CSV

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