

sonix™

INTRODUCING



# pulse2™

## PULSER/RECEIVER

### THE CHALLENGE

Getting even better signal quality and image resolution to detect the smallest defects in semiconductor packages and bonded wafers.

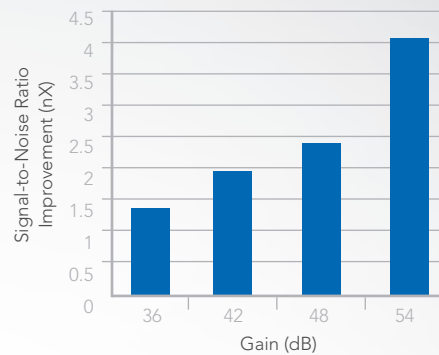
### THE SOLUTION

Exclusive **pulse2™** pulser/receiver from Sonix™ with proprietary technology for all ECHO™ and AutoWafer™ systems.

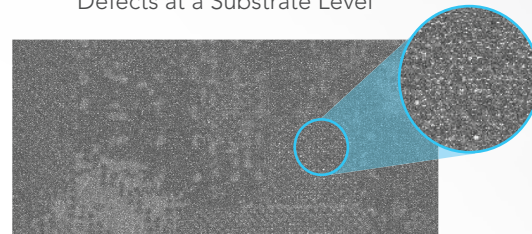
## THE pulse2™ PROOF

- +12 dB gain compared to standard pulser/receivers
- 4x improvement in signal-to-noise ratio (SNR)
- Separates signals from low-level background noise in the signal path
- Generates clean, clear images even with ultra-high-frequency transducers
- Supports higher-frequency pulse echo and through-transmission (TT) images for improved resolution of features/defects
- Optimizes scanning acoustic microscope (SAM) performance
- Provides optimum image quality for all wafer and packaged semiconductor inspection applications

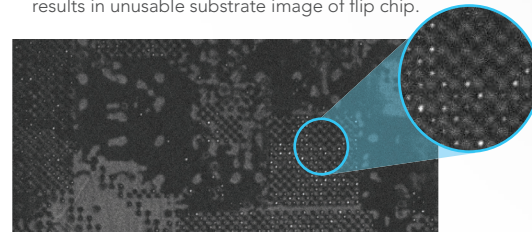
pulse2™ Delivers Improved Signal-to-Noise Ratio (SNR)



pulse2™ Resolves Features and Defects at a Substrate Level



Excessive noise with standard pulser/receiver results in unusable substrate image of flip chip.



Hidden features and defects of substrate revealed using pulse2™ pulser/receiver.

# sonix™

## YOUR PARTNER IN PRODUCTIVITY

Every day, you're **challenged** to execute the most accurate inspection of bonded wafers and packaged semiconductors. Your success – and your customers' success – depends on it.

Sonix has pioneered breakthrough **solutions** in image quality and process productivity, helping wafer and chip manufacturers literally transform the world. Our acoustic scanning microscopes perform nondestructive inspection of bonded wafers and packaged semiconductors, from the development lab to the production floor.

The **proof** is in new products like the pulse2™ pulser/receiver. And in our full line of products that promise and deliver proven uptime, speed and image quality. And in our collaborative problem-solving, proactive R&D and world-class service and support. Sonix, the ultrasonics leader.

LEARN MORE AT [SONIX.COM](http://SONIX.COM) OR CALL 703.440.0222 TO TALK TO AN EXPERT TODAY.

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