

How Imagine3D improves on the phrase: "Seeing is Believing"

UTEX Scientific Instruments Inc.

Question # 11

Q: How do Imagine3D ultrasonic simulations work?

A: Imagine3D simulations display the sound field of a transducer in relation to a part, or object. The sound field can be viewed from any angle as ray-traced lines, wavefronts or rendered as a beam profile showing the energy lobes. I3D simulations also provide a list of angles and distances as well as A-scans and B-scans. Simulating an inspection is the only means of truly seeing what is happening to the sound field during an inspection.



Question # 12

Q: How do Imagine3D simulation results compare to the real world?

A: There is little difference between simulated and real world results. Imagine3D lets you build or import the parts to inspect as well as specify the part's material properties and the details of the transducer. The most important advantage of using a simulation is that the sound path is visible, making it very easy to determine what regions are actually being inspected.

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