

# Q & A for Teradyne's ClearVue Automated X-Ray Inspection Technologies Webinar.

July 20, 2005

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Q: Does ClearVue need Z axis movement to create a 3D slice?

A: No, ClearVue used a digital computational method and as such all slices are generated using static images.

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Q: How can we calculate test time? And how fast is ClearVue in Joints/minute?

A: For an approximate test time calculation you can use 0.64 Sq in/S and TraX 6 Sq in/S. As the inspection is based on the size of a board we do not calculate throughput in Joints/minute.

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Q: How well do you handle top / bottom stacked BGAs?

A: Stacked BGAs balls are cleanly differentiated using the ClearVue technology. We have examples of these internally; please contact your local account representative for further information.

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Q: Can ClearVue discriminate images as well as laminography based systems?

A: ClearVue uses static images, max value, and digital reconstruction techniques to generate 3D slices. This differs from laminography where the source and detector move and the out of focus parts of the image are averaged behind the joint you are inspecting. As such ClearVue provides higher resolution images and removes blurring and shadow artifacts that are still in a laminographic image.

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Q: Are there sample images available online? IE: Actual board image & processed images?

A: Images are available in the ClearVue release presentation on-line. We have examples of these internally; please contact your local account representative for further information.

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