

***Considerations of design and manufacture of single crystal ultrasound transducers,  
a perspective from industry***

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In this presentation the ultrasound products, including ultrasound probes, catheters and other ultrasound based equipment, are introduced. Performances on a set of probes for the use of B-scanner, i.e. curved linear array, linear array, phased array, endo-cavity array and high frequency composite array, are described in detail. The performance stabilities, on which people are concerned most for premium single crystal probes, are also addressed.

The presentation would like to share the design considerations and technical issues we have encountered in a situation of mass production from a perspective of the industry.

Finally, how to develop premium single crystal probes with a cost effective way may be discussed.