



DACON PA Ultrasonic Phased Array Instructions

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DACON PA Ultrasonic Phased Array



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Instruction For Use

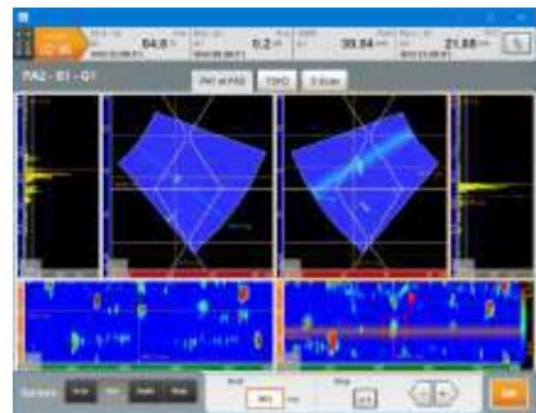
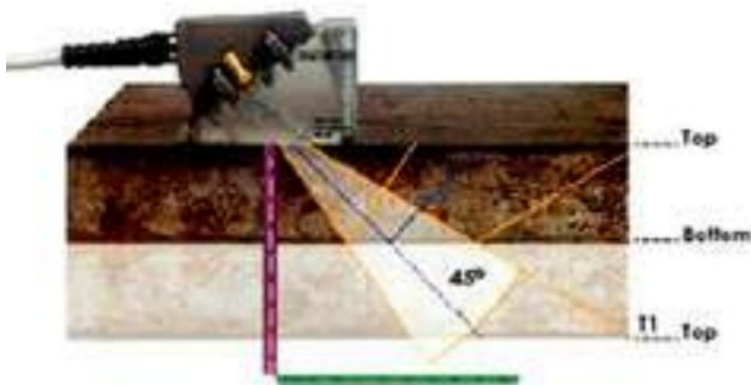
Ultrasonic Phased Array originated as early as 1959 when Tom Brown at Kelvin and Hughes filed for a patent of an annular dynamically focussed transducer system. This system latterly became known as phased array

Ultrasonic technology has evolved from single piezoelectric transducers to electronic beam manipulation using many individual piezoelectric elements in one transducer housing. This allows for complex manipulations of wave fronts.



Phased array technology is the ability to electronically modify acoustic wave characteristics such as beam angle, and focusing. Probe modifications are performed by introducing time shifts in the signals sent to and received from individual elements of a probe array. Any ultrasonic techniques for flaw detection and sizing can be applied using phased-array probes. This technology has made major advancements with respect to weld scanning, corrosion scanning, and difficult to inspect materials.

Phased array provides high speed electronic scanning without moving parts, improved inspection capabilities through software control of beam characteristics, and inspection with multiple angles with a single probe.



CUSTOMER SUPPORT

www.dacon-inspection.com





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References

- [User Manual](#)

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