



ITCL



# ITCL: Ready for Inspection Phased Array



## What is it?

A simple definition of Phased Array is 'an electronic method of generating, receiving and displaying an ultrasound signal'. The process uses a conventional probe cut into many segments which are individually 'excited'. It does not change the physics of ultrasonics but can be accurately manipulated to provide precise data about the materials under test. Sophisticated technology allows multiple elements to steer, angle, multi-focus and scan beams using a single transducer assembly.

The principles of ultrasonic technology have been known for many years but it is only in the last 50 or so that knowledge has been harnessed to great and diverse effect where surface and depth of any description needs to be tested and inspected.

Phased Array is also extensively utilised in the food processing, medical, biological, agricultural and pharmaceutical sectors for the same purposes as every other division– the gathering of vital data essential for product performance, health & safety, research and development.


## Why should I use ITCL?


ITCL prides itself on the high quality of application and testing by experienced technicians.

Our workforce is fully qualified to current standards and works to approved procedures and control checks. Environmental and Health & Safety issues are of paramount concern to all staff working on your site. Expert consultation is always available.

ITCL offers a comprehensive 24hr in-house and on-site service.

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