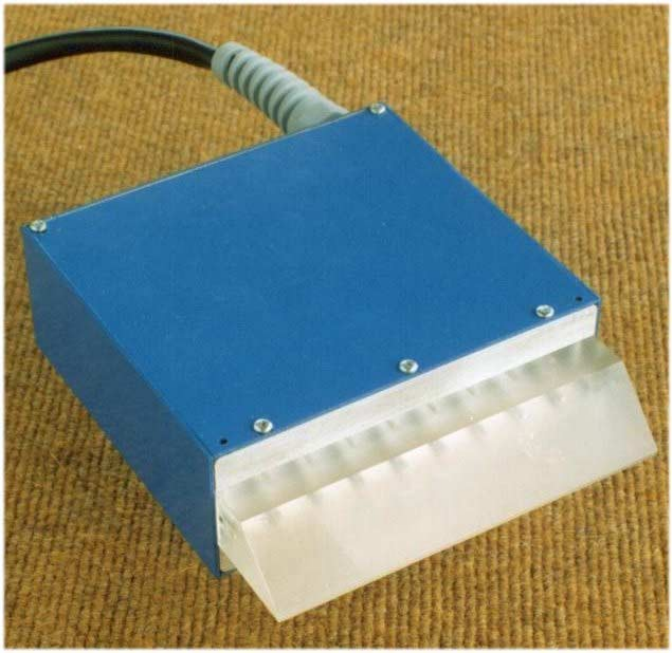
MLA – Multiplexed Linear Array

HIGH-SPEED LOW-COST ULTRASONIC INSPECTION AND IMAGING



The MLA multiplexed linear array is part of a family of arrays and multiplexers which have been designed to address the requirement for rapid, but low-cost, inspection in Non-Destructive Testing.

The pulser/receivers and beamformers are integrated with a wide bandwidth ultrasonic array to provide a powerful rapid-inspection head that works with standard ultrasonic equipment, such as Flaw Detectors.

The sensitivity benefits of a narrow beam, as used in conventional single element inspection, are combined with the rapid large area coverage capabilities of paintbrush probes, by electronically sweeping the beam along the array.

KEY FEATURES

- Wide scan capability — 128mm typical (other options available)
- Wide bandwidth — Typically 100% (choice of centre frequencies)
- Configurations — 0° compression or choice of shear wave angles
- Simple interface
  - Connects to standard Flaw Detector via small interface box
  - Beam increment automatically derived from Transmit in free-run mode
- Flexible — Beam position data available for external mapping systems
- Fast — Well-suited to both automated and fast manual inspections
- Controllable
  - External control of beam position, aperture and focus
  - Independent control of beam for Transmit and Receive
- Imaging — Real-time imaging with Diagnostic Sonar's Flaw Inspecta

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