

Due to the material composition and grain structure, weld inspection of austenitic stainless steels and some other exotic material such as nickel alloys is difficult to perform with shear wave scans. Dual Linear Array (DLA) probes provide an adaptive and modular solution for weld inspection of material with high signal attenuation as they can significantly improve the SNR (signal to noise ratio) by focusing on the actual weld geometries. Low signal noise resulting from a Pitch & Catch setup combined with the beam steering capabilities of phased array technology is supplemented with an advanced wedge configuration to reduce the noise even further and allow the probes to be located closer to the actual HAZ (heat affected zone) and the weld.



### Industries

- Oil & Gas
- Power Generation
- Nuclear
- Pipeline

### Typical Applications

- High attenuative & exotic materials
  - Vessel
  - Tanks
  - Pipes

### Features & Benefits

- Isolating the transmitter from the receiver in the probe configuration improves the signal to noise ratio (SNR)
- Better focusing capabilities and resolution for improving the probability of detection
- Detachable single cable with multiple probes (frequencies)
- Custom wedges are available for a wide range of geometries

## Recommended Package

Category	Part Number	Description
Product	VEO+32:64PR BNC or VEO+32:64PR LEMO	VEO+ 32:64PR / 2UT:PR Kit BNC or VEO+ 32:64PR / 2UT:PR Kit LEMO
Product option	SW-VEO+PA32	Upgrade to 32 pulsers/receivers
Probes	D1B-002 (2x)	D1B-5M32E-0.8x12  <b>Note:</b> 2.25 MHz and 7.5 MHz probes are also available
Wedge	D1BW series	<b>Note:</b> The focal distance of the wedge is based on the thickness, outside diameter and material type.  Use Beamtool or contact us to select your wedge focal distance.  <b>Customised wedges are available to order.</b>
Cable	D1-CABLE-003	D1-CABLE-D-QX2 (Dual cable) - 2 meters

For further information, please contact the Sonatest Sales Team: [sales@sonatest.com](mailto:sales@sonatest.com)

Get in touch with your local Sonatest expert, available in more than 50 countries over 5 continents!



**Sonatest (Head Office)**  
Dickens Road, Old Wolverton  
Milton Keynes, MK12 5QQ  
t: +44 (0)1908 316345  
e: [sales@sonatest.com](mailto:sales@sonatest.com)

**Sonatest (North America)**  
12775 Cogburn, San Anotio  
Texas, 78249  
t: +1 (210) 697-0335  
e: [sales@sonatestinc.com](mailto:sales@sonatestinc.com)