

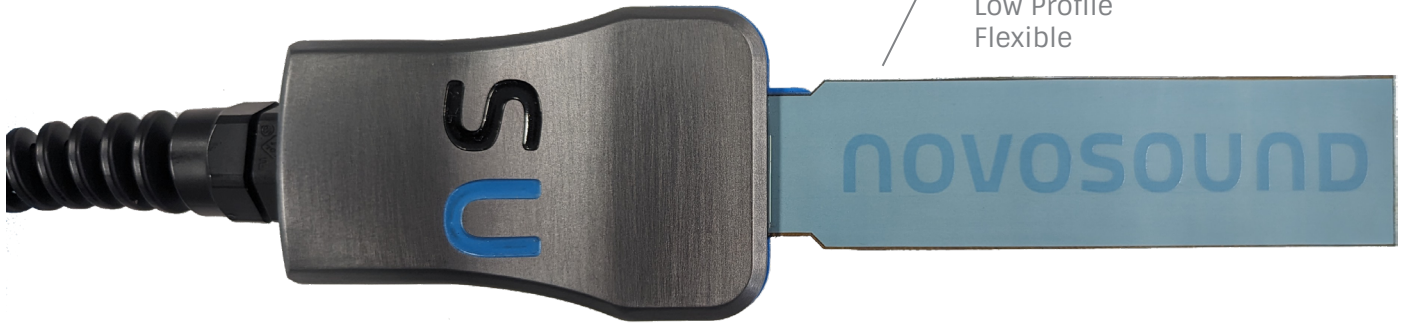
NOVOSOUND

KELPIE

Kelpie, ('kelpi, Scottish Gaelic) - a shapeshifting Scottish Legend

Printed Ultrasound Sensor

64 el. linear array
High Resolution
Low Profile
Flexible



The Kelpie replaces **challenging inspections** with a simple solution. Designed to **adapt to all geometries**, the Kelpie is suitable for the inspection and corrosion mapping of components across a **wide range of industries**.

Offering unparalleled dexterity, the Kelpie's **flexible and low-profile tongue** allows for **continuous flexing, twisting and bending** during scanning. This facilitates simple inspection of **small-diameter piping, angular**

surfaces, elbow joints and corners. With its fully flexible form, users simply need one probe for all inspections.

Utilising an IPEX connector the Kelpie can be easily connected to any standard UT acquisition unit.*

With a range of customisable parameters including size, frequency, pitch, kerf and element count, **the Kelpie can be transformed to suit your application**.

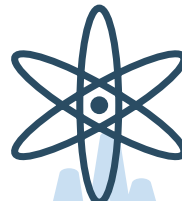
Applications



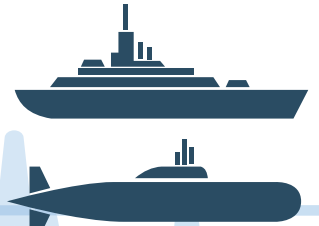
AEROSPACE



POWER



NUCLEAR



DEFENCE

www.novosound.net

info@novosound.net

**adapter may be required*

Revision 1.4- Oct 2023

Put the novosound Kelpie to the test

The Evaluation Kit is designed to allow you to assess the performance of the Kelpie within minutes. Containing test pieces of different geometries, the kit enables the evaluation of multiple parts using one UT tool, reducing the need for you to perform proof-of-concept tests out in the field.

- Quickly scan different materials and geometries with one UT instrument
- Minimal set-up time allowing the evaluation of real data instantly
- Cost-effective way to learn about the performance of the novosound Kelpie
- Make informed decisions faster, accelerating the development process



Specifications

Frequency	20 MHz	No. of Elements	64 (linear)
Pitch	1.0 mm	Elevation	5.0 mm
Active Aperture	63.8 mm	Relative Bandwidth	60 % (-6dB)
Flexible Sensor Dimensions (LxWxH)	110 x 30 x 0.5 mm	Overall Probe Dimensions (LxWxH)	200 x 60 x 25 mm
Connector Type	IPEX Minidock	Maximum Temperature	80°C
Min Bend Radius	5.0 mm**	Maximum Twist Angle	45°

** Signals can be achieved through 5mm radii but smaller pitch may be required for sufficient resolution when inspecting.