

SPACE[®] Focus

Visualise your well in 3 dimensions

SPACE[®] Focus is a state-of-the-art high-resolution cased-hole ultrasound imaging tool optimised for looking ahead of the toolstring. This makes it ideal for inspection and evaluation of fish, collapsed tubing and other wellbore restrictions. Using the established technology applied in medical ultrasound imaging, **SPACE[®]** is designed and built for the hostile environments encountered downhole. This allows the creation of high-resolution 3D images of fish and tubular deformation profiles in most production liquids.

Benefits

- Works in most production liquids—does not need to be optically clear
- High accuracy measurements in 3 dimensions
- Real time high resolution 2D images. 3D rendering created in proprietary **SPACE[®]** software
- Operates on adaptive high-speed telemetry system

Applications

- Inspection and evaluation of collapsed or otherwise deformed tubing or casing
- Inspection and measurement of fish and other wellbore restrictions
- General imaging applications with extended features unavailable to optical cameras



A multi-element 3 MHz ultrasound transducer array is combined with electronic focusing and signal multiplexing

to allow optimised images to be captured in different tubing sizes. The transducer array operates in pulse echo mode and contains no moving parts.

Real time understanding

Logging is performed dynamically with high-resolution 2D images obtained in real-time. Our proprietary visualisation software allows measurement of dimensional information directly from the images and enables the creation of 3D images within seconds of data acquisition.



Captured by SPACE®

Specifications - SPACE® Focus

Physical

Outer diameter	3.2" [81.3 mm]
Length	52.2" [132.6 cm]
Weight	49.2 lb [22.3 kg]

Environmental

Maximum temperature	275°F [135°C]
Maximum pressure	7,250 psi [500 bar]

Electrical

Voltage	240 VDC
Current	200 mA

Functional

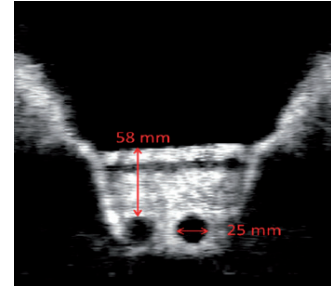
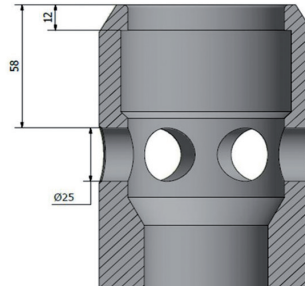
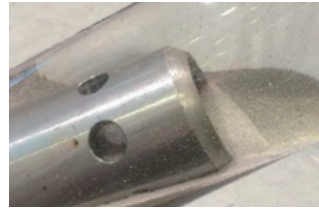
Number of sensors	192
Azimuthal resolution	1.875 deg

Operational

Logging speed:	3-30 ft/min [0.9-9.1 m/min]
Logging mode	Real-time

Well conditions

Fluid	Water, brine, oil, produced liquids
Minimum casing ID	3-1/2" [89 mm]
Maximum casing size	9-5/8" [244 mm]



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