

SPACE® Panorama

Visualise your well in 3 dimensions

The 2-1/8" **SPACE® Panorama** is a state-of-the-art high-resolution cased-hole ultrasound imaging tool. 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 internal tubing or casing condition in most production fluids.

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 renderings created within seconds
- Operates on new adaptive high speed telemetry system

Applications

- General imaging applications with extended features unavailable to optical cameras
- Inspection of downhole jewellery with complex internal geometries such as SPM and DHSV
- Evaluation of metal loss, corrosion or damaged pipe
- Inspection of wellbore restrictions
- Sand screen, ICD and perforation evaluation



A multi-element 3.5 MHz circumferential 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.

Image scanning parameters can be adjusted from surface by the logging engineer ensuring optimum image quality of even geometrically complex items.

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® Panorama

Physical

Outer diameter	2-1/8" [54 mm]
Length	101.6" [258 cm]
Weight	58 lb [26.3 kg]

Environmental

Maximum temperature	302°F [150°C]
Maximum pressure	15,000 psi [1 034 bar]

Electrical

Voltage	240 VDC
Current	200 mA

Functional

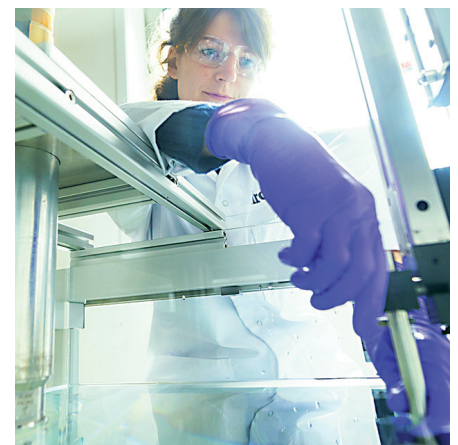
Vertical resolution	0.39" [10 mm]
Number of sensors	288
Azimuthal resolution	1.25 deg
Accuracy	0.51 mm

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
Casing range	3-1/2" - 13-3/8" [89-340 mm]
Minimum ID for imaging	2.8" [71 mm]



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