

## ACOUSTIC CALIPER ARRAY TOOL



The Acoustic Caliper Array Tool (ACAT) employs 16 distributed acoustic sensors positioned across the tool. This configuration enables the tool to achieve high-fidelity measurements of the entire 360-degree inner surface of the well tubular. With its precise acoustic sensing capabilities, the ACAT provides a clear and comprehensive picture of the wellbore conditions.

The slim design of the ACAT makes it suitable for logging wells with diameters ranging from 2 7/8" to 7". The compact size of the tool enables it to navigate through narrow wellbores efficiently.

Additionally, the ACAT is capable of detecting defects in the well tubular as small as 0.7 mm. This level of sensitivity allows it to identify and locate anomalies such as corrosion, erosion, scale buildup, or other structural issues that could potentially impact the integrity of the well.

### Applications:

- Internal and external well tubular inspection with a high level of detailization
- Corrosion evaluation and monitoring
- Perforation intervals assessment
- Fractures and vugs evaluation in OH

### Advantages:

- Non-invasive caliper measurement
- Through-tubing technology
- Memory mode (fully autonomous)
- Compatible with an entire range of North Side Tools

### Tool Specifications

Number of transducers / receivers	16 / 1
Tool resolution	0.7 mm
Casing OD / Measurement error	2.875-7 in (73-178mm) / ±0.5 mm
Maximum Operating Temperature	120°C (248°F)
Maximum Operating Pressure	11,600 PSI (80 MPa)
Logging speed	8 m/min
Tool OD	1.65 in (42mm)
Tool length	9.8 ft (3m)
Surface read-out / Memory	Memory
Operational time	45 hrs
H <sub>2</sub> S resistance	6% standard (25% optional)

# ACOUSTIC CALIPER ARRAY TOOL

