

## Full Waveform Sonic Probe

### Array and CBL Probes

#### APPLICATIONS

- Lithology Identification
- Hydraulic characterisation
- Cased hole Cement Bond Log
- Porosity and permeability analysis
- Key mechanical rock property calculations
- Rock strength & Elasticity
- Seismic data correction

#### FEATURES

- Open Hole Full Wave Sonic
- Cased Hole Cement Bond Log



Geovista supplies two Sonic probe types with either a standard one or two transmitter to two receiver array, or a slimmer one transmitter to four receiver array to provide formation acoustic velocity data, full waveform and cement bond log data.

#### OVERVIEW

The standard 60mm O.D. Geovista sonic sonde is fitted with one piezoelectric transmitter and two receivers (with the option to add a second transmitter if required). The sonde is configured in modular form, for easier transport and handling. It can be used for Sonic Transit Time, CBL /VDL and Full Waveform logs.

A 50 mm O.D. sonde for smaller diameter boreholes is also available. This sonde is fitted with one transmitter, and four receivers. Both sondes can measure transit time, amplitude and full waveform.

#### SPECIFICATION

	60mm Sonic Sonde	50mm Sonic Sonde
Weight	25 kg	16.7 kg
Length	2.34 m	2.2 m
Diameter	60 mm	50 mm
Receiver spacing	91 & 152 cm (3ft & 5ft)	60, 80, 100, 120 cm
Sampling rate	Variable <small>(500 samples @ 4 mSec or slower)</small>	2µs or 4µs
Resolution	12 bit; Record length: minimum 2 ms	12 bit; Record length: 1 or 2 ms
Transducers	Ceramic piezoelectric (23 KHz resonant frequency)	Ceramic piezoelectric (28 KHz resonant frequency)
Gain Settings	16 levels with selectable AGC	11 levels
Max. Pressure	20 MPa	20 MPa
HP version	35 MPa	
Max. Temperature	80°C	80°
Combinability	Modular	Modular
Borehole	Water, Mud Open hole Sonic Cased hole CBL	Water, Mud Open hole Sonic Cased hole CBL
Centralisation	Required	Required
Accessories	In-Line Centralisers	In-Line Centralisers

