



The **BHTV42** acoustic televiwer tool employ a rotating transducer mounted at the lower extremity of the tool to send a highly focussed ultrasonic pulse radially outwards towards the borehole wall up to 360 times per revolution, the amplitude and travel time of which are measured on its return to the probe after reflection at the borehole wall. This information, combined with the data given by the tool's onboard orientation system, provides an extremely detailed and orientated acoustic image of the borehole wall.

As an option, the standard **BHTV42** probe can be supplied with a natural gamma detector to provide additional lithological information or for horizon correlation purposes.

A high-temperature variant, the **BHTV42-HT**, can operate at up to 125°C / 257°F.

Specifications

- ✓ Diameter: 42 mm / 1.65 "
- ✓ Length: 2100 mm / 82.7 "
- ✓ Weight: 8 kg / 17.6 lbs
- ✓ Max. operating Temp: 70°C (standard), 125°C (HT)
- ✓ Max. operating Pressure: 200 bar / 2900 psi
- ✓ Recommended max.cable length: 2000 m with 3/16" 4Go cable
1000 m with 1/10" monocable
- ✓ Housing type: Titanium & non-magnetic brass

Data / sensor parameters

- ✓ Max.communication speed: 312.5 Kbit/sec.
- ✓ Transducer: 1" focussed piezo-composite and rotating mirror
- ✓ Signal frequency: 1.5 MHz
- ✓ Acoustic beam angle: 3°(3dB) conical
- ✓ Amplification: 0 to 60dB in 1dB steps/AGC
- ✓ Horizontal resolution: 90, 120, 180 or 360 pixels
- ✓ Vertical resolution: defined by logging speed (2.4 m/min if resol.is 2 mm)
- ✓ Orientation sensor: triple magnétometers / accelerometers
- ✓ Orientation precision: ± 0,5° inclination, ±1° azimuth

Accessories / options

- ✓ Natural gamma detector: ø25 x 50 mm NaI(Tl) crystal
- ✓ Non-magnetic centralisers
- ✓ Sinker weight
- ✓ Image reference calibrator

Borehole conditions

- ✓ Fluid-filled open borehole: water or light bentonite mud
- ✓ Probe must be centralised
- ✓ Recommended diam. range: 75 to 300 mm / 3 to 12"