



## Acoustic Borehole Televiwer ABI42



The digital **Acoustic Borehole Televiwer ABI42** outputs a continuous power ultrasonic wave train emitted by a rotating transducer for scanning the sidewall of the borehole thus providing an oriented, continuous 360° image of this one. The sonde can be run into a borehole filled with either mud or water.

The **Acoustic Borehole Televiwer ABI42** is the ideal solution for customers requiring:

- Fracture and stratigraphy imaging and characterization
- Lithology characterization
- Caliper measurements
- Casing investigations

**TECHNICAL SPECIFICATIONS**

Length:	2.1m
Diameter:	42mm
Weight:	10kg
Max. Operating Temp:	70° C
Max. Operating Pressure:	150bar
Housing:	Titanium body and non-magnetic brass parts
Borehole Diameter Range:	3 to 15” depending on borehole conditions
Circular Resolution:	User definable; 90/120/180/360 samples per revolution
Vertical Resolution:	Unlimited; determined by wireline speed

**PERFORMANCE / SPEED OF OPERATION**

2.5m/min typical logging speed with 180pixels horizontal/3mm vertical resolution (communicating over a 1500m 4-conductor wireline)

**WIREFINE**

Cable Type:	Any standard wireline - coaxial, mono or multi-conductors Automatic cable selection
Data Rate:	156Kb/s typical over a 1000m 4-conductor wireline 125Kb/s typical over a 1500m 4-conductor wireline 104Kb/s typical over a 2000m 4-conductor wireline
Logger Compatibility:	eMindLogger / RG Micrologger

**ACOUSTICAL SENSOR**

Transducer Type:	1” focused piezo composite sensor with rotating mirror
Transducer Frequency:	1.5MHz
Acoustic Beam Angle:	3°@-3dB, conical
Transducer Rotation Rate:	Automatic or user adjustable up to 20 revolutions per second
Acoustical Gain Range:	User definable; 0 to 60dB in 1dB step with automatic gain option
Caliper Resolution:	≤ 0.1mm

**ORIENTATION**

Orientation Device:	Precision 3-axis magnetometer and accelerometer for true 3D operation
Inclination Accuracy:	0.5°
Azimuth Accuracy:	1.0°

**LOGGING DATA**

File export to LGX format:	Travel time 360° image oriented Amplitude 360° image oriented Borehole orientation data Natural gamma (optional) Transducer and electronic set T°
File export to LAS format:	Borehole inclination and azimuth Accelerometer and magnetometer raw data Total magnetic field (0.1nT resolution) Magnetic field angle vs gravity vector Natural gamma (optional) Logging speed
Replay Mode:	All data listed above and additionally: sonde parameters and settings; communication parameters and settings