The hydrophone string BHC1000 is a fully digitized borehole receiver unit running on 4-conductor logging cable. The BHC1000 consists of max. 24 hydrophones moulded to a multicore cable. A digitization unit is placed on top of the string and can be connected to the standard 4-conductor logging cable. At surface a control unit is connected to the logging winch and directly to laptop.

Technical Details

**BHC1000-Sonde**
- Hydrophone sensor: SQ54
- Pre-Amplification: Fixed 4 x gain
- Operational depth: Up to 1000 m
- Number of hydrophones: 24
- Max. pressure: 100 bar
- Temperature range: 0-70 °C
- Digitizer length: 70 cm
- Digitizer diameter: 57 mm
- Borehole diameter: Min. 70 mm
- Depth indicator: Automatic depth counter
- Signal transmission: 4-conductor cable
- Cable head: GO-4
- A/D conversion: 24 bit
- Sampling frequencies: 250-48000 Hz
- Trace length: 65000 samples

**BHC1000-Control Unit**
- Power: Car battery (9-18 V DC)
- Weight: 3kg
- Communication: 2 wire RS-485
- Downhole electronics: DSP = Blackfin 548, 64 MB SDRAM
- Trigger: Piezo, switch, TTL
- Auxiliary channel: 4

Data Example