# EBP

Ultra-high resolution sub-bottom profiling

Deliverables

- Ultra-high resolution sub-bottom profiling
- Cable detection
- Fluid mud detection

The EBP system has been developed to yield optimal results in the area of 3 – 33 kHz sub bottom acquisition range.

It offers the choice of transducers dependant on requirement and processes this via its unique USB-A/D configuration to ensure the highest resolution of your data. With the full digitalization of the signal the system enables **full and quick import** of the acquired data into the Silas Software Suite, ensuring the **high resolution transmission of data** for full processing.
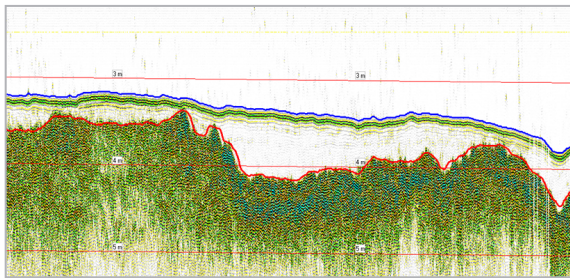
Silas profile recorded with EBP system to identify top and bottom of fluid mud layer.

Stema EBP Sub-bottom Profiler system.
Choice of transducers will be recommended to fit required result.

Example of transducers used with EBP system to detect export and infield cables.

Key features

- Easy to deploy and operate
- Multiple frequency range 3 - 33 kHz
- Easy to integrate in survey setup

Related products

| Silas |
| Object detection |
| Rental |

EBP

Ultra-high resolution sub-bottom profiling

Specifications

Frequency
High band: 100 kHz - 1 MHz
Low band: 3.5 kHz - 50 kHz

Power
Output High band: 900 W RMS at 200 kHz
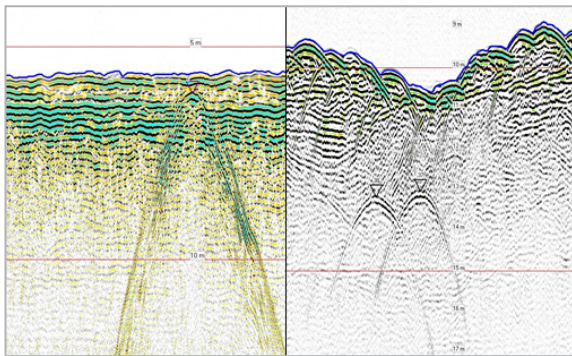Output Low band: 2 RMS

Input
110 or 220 V AC - 24 V DC, 120 W

Interfaces
4xRS232
Ethernet interface

Output
Raw seismic wiggle (user select sampling rate)
Digitized depth levels (echo-sounder pre-sets)
Real-time density level (requires calibration)

Transducer options
- 3 – 7 kHz
- 10 – 14 kHz
- 24 / 33 kHz

Vertical resolution
- Depends on frequency and cycle selected
- 24 kHz 1 cycle < 10 cm
- 4 kHz 1 cycle < 40 cm

Penetration
- Depends on soil type and frequency
- 24 kHz: clay / mud, typical 5 m
- 4 kHz: clay / mud, typical 10 – 20 m
- 4 kHz: sand, typical 5 m

Peripheral equipment options
- Boomer
- Sparker
- Bubblegun

Data acquisition
Display profile and individual trace, external heave, colour control, position input, signal offset correction, auto-start (slave from Survey PC), real-time density computation

Data processing
Display profile and individual trace, unlimited layer definition, auto-tracing, layer copying, swell filter, external heave/tide, sub bottom amplification, navigation display, cross points and quick line select, targets, export layers to ascii or CAD, graphics export to html, bmp, jpeg

Example of Silas sections with detected cable (left) and detected pipelines (right).