

SCOUT - Logger

The **SCOUT** offers the unique combination of high performance, ruggedness and ease of use appreciated by logging operators worldwide.

It supports all tools implementing ALT protocol including MSI/ALT tools with QL Telemetry and optimized for use with the 2nd generation acoustic and optical televiwers – collecting data at baud rates up to 500,000 bps.



Key benefits

- USB interface, runs on any PC compatible notebook.
- Windows operating system platform.
- Wireline and winch flexibility-runs on coax, mono-or multi-conductor wireline.
- High speed up hole telemetry system and automatic telemetry tuning.
- Improved telemetry performance on long single and multi-conductor wirelines when used in conjunction with the latest generation of ALT/MSI tools. New Equalizer and Train processes.
- Totally software controlled using Logger Suite software. Real Time Data display and printing.
- Very easy to use, with graphical user interface, self-diagnostic features, configurable through files, minimal user input required.
- Shaft encoder flexibility - compatible with any 12V or 5V shaft encoder.
- Robust heavy duty system, fault tolerant.
- Preferred solution for customer looking for light weight high performance equipment.

Technical specifications

- **Dimension (W x L x H)** 17 x 31.5 x 12.5 cm
7 x 12.4 x 4.9 in
- **Weight** 3.5 Kg
- **Input Voltage** 90-240 VAC, 50-60 Hz
inverter compatible
- **Tool Power** 120 V / 500 mA
- **PC Connection** High Speed USB
- **Logging Cable** Standard single, four, seven conductor and coax
- **Tools / Telemetry** ALT protocol including MSI/ALT tools with QL Telemetry
- **Upgradeability** User upgradeable firmware
- **Software** Logger Suite V 12.1 or later

SCOUT - Logger

Logger suite software

Logger suite software is compatible with all ALT/MSI data loggers. The software is easy to use and the interface is conform to the MS Windows standard.

The heart of the graphical user interface is **the dashboard**, the operators control panel to select and control all system functions, monitor the data acquisition process and observe the logging tool status. The dashboard consists of multiple threads running concurrently and handling specific system tasks simultaneously.

The dashboard provides access to the following windows :

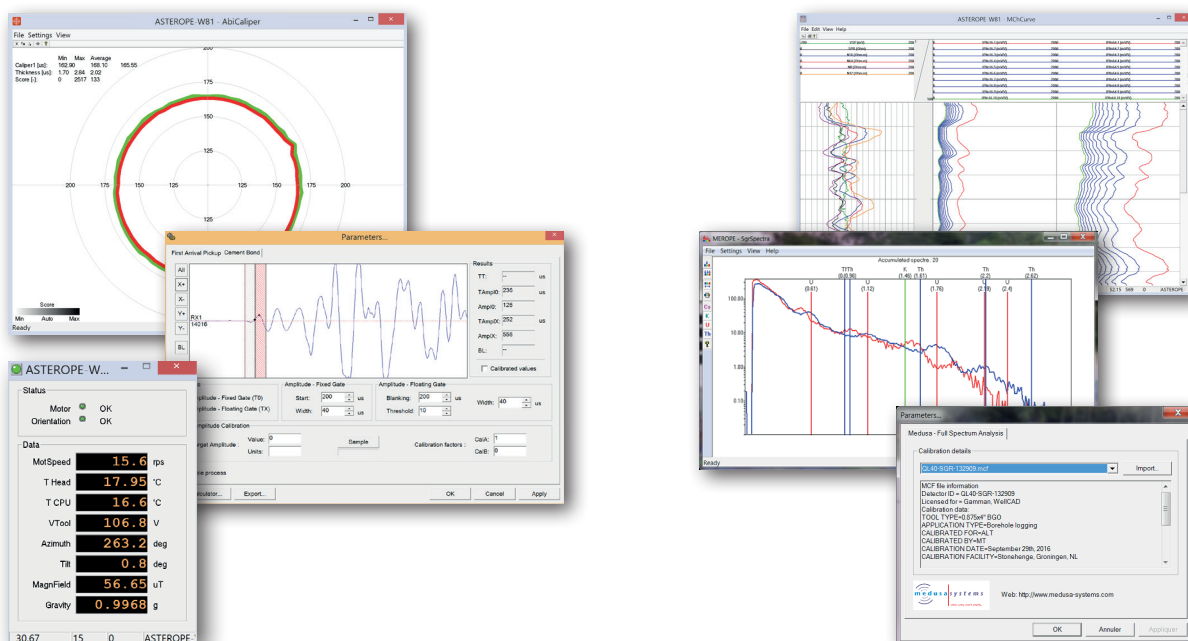
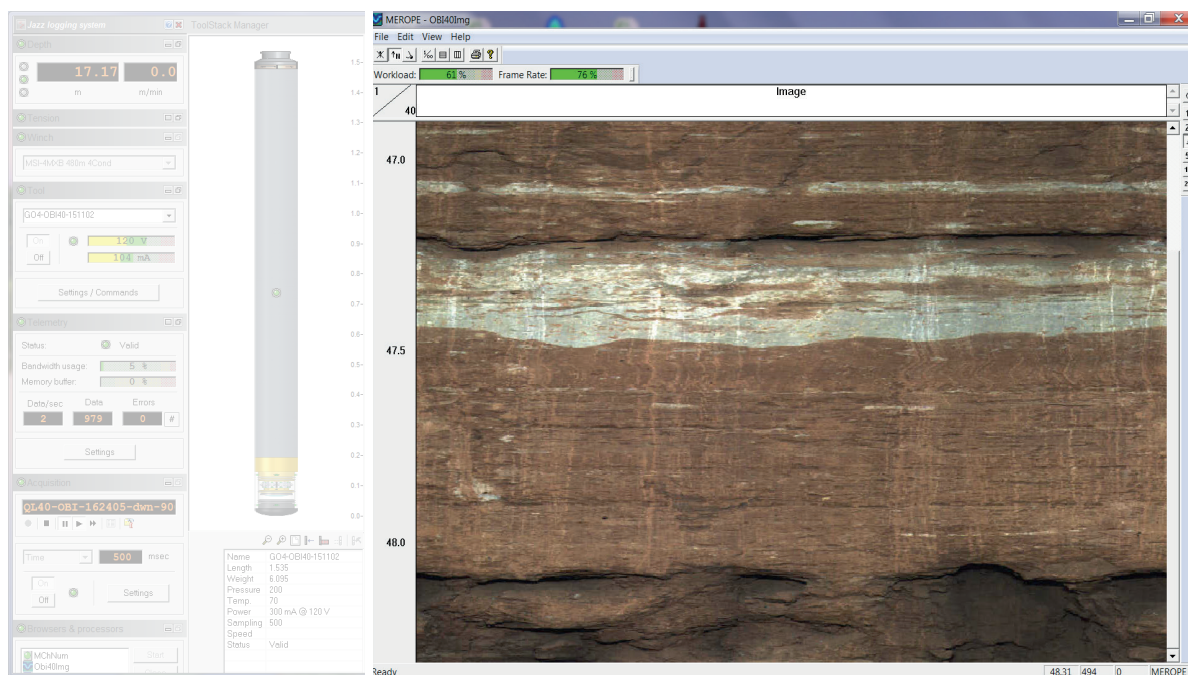
The image displays the SCOUT Logger suite software interface, which includes a main dashboard and several configuration windows. The dashboard is divided into sections for Depth, Tension, Winch, Tool, Telemetry, Acquisition, Browsers & processors, and Status. The Telemetry window shows a graph of the signal and various status indicators. The Settings window allows for configuring the analysis, scale, and scope. The Equalizer window provides options for amplitude and group delay, and the Equalizer/Train window offers training mode options.

- 1 Depth control
- 2 Wireline weight indicator display
- 3 Winch selection
- 4 Tool configuration and power control
- 5 Advanced tool settings telemetry control and tuning
- 6 Data sampling record and replay control
- 7 Data browser and processor control windows
- 8 System status display

Full Automatic Telemetry Tuning and "Equalizer/Train" options for higher telemetry performance on long single and multi-conductor wirelines.

SCOUT - Logger

Browser windows are used for real time data monitoring and offer a wide choice of display and printing options for conventional curves, full waveform sonic traces, acoustical and optical borehole images. A header editor is available to provide sophisticated log headers with graphics. Special processors can be activated and configured for real time processing.

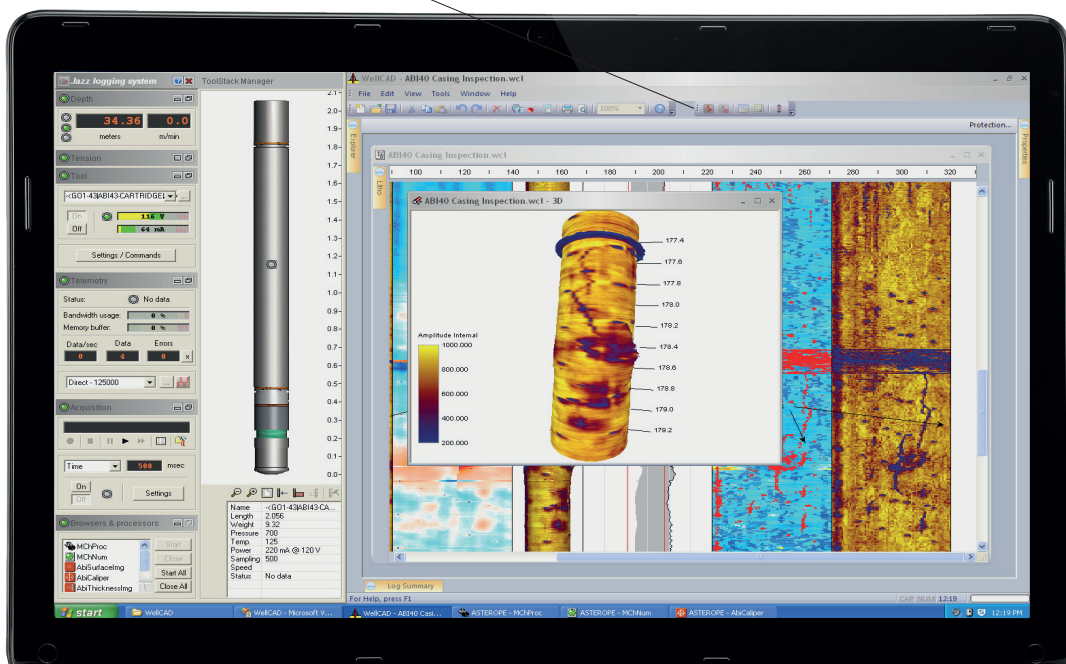


SCOUT - Logger

WellCAD™ browser

WellCAD Browser add-on module allows a real-time connection between the WellCAD data processing platform and the logger.

- collect data directly in WellCAD
- apply templates
- allow real time editing (annotation)
- compare currently logged data with reference / repeat data
- QA / QC tasks
- 3D display
- data preprocessing and field interpretation



In this example, the operator is able to monitor the realtime scrolling log, view any or all other logs while monitoring all the log outputs, including depth. Optionally raw sensor data may be displayed. Comparison with main & repeat section, scrolling and adding annotations while data acquisition continues.

Log curve scale and other presentation parameters may be adjusted while logging.

OPAL • Logger

The **OPAL** acquisition system is based on a modern electronics design in which software control techniques have been used to the best advantage. The hardware incorporates the latest electronic components with embedded systems controlled via the specially developed **LOGGER SUITE** windows interface program.

The system design philosophy is unique in two respects, firstly it is **totally software controlled**, and secondly it has been built to accommodate **multivendor tool types**. As standard the OPAL operates all tools using the ALT/MSI, the PROBE PTX-Intellex (<https://probe1.com>) and KUSTER (<https://kusterco.com>) telemetry communication protocols. It is also the preferred system to run the Borehole Magnetic Resonance (QL40 BMR60) developed by Qteq.



Key benefits

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- Improved telemetry performance on long single and multi-conductor wirelines when used in conjunction with the latest generation of ALT/MSI tools. New Equalizer and Train processes.
- Totally software controlled using Logger Suite software. Real-time data display and printing.
- Very easy to use, with graphical user interface, self-diagnostic features, configurable through files, minimal user input required.
- Real-time logging in WellCAD.
- Shaft encoder flexibility – compatible with any 12V or 5V AB shaft encoder, and configurable for any combination of wheel-shaft PPR.
- Wireline tension monitoring. Tension adapter compatible with any tension sensors-gauges.
- Up to 8 analog inputs to collect information from external sensors.
- Rugged rack mount chassis construction, heavy duty, and fault tolerant electronics.
- Modular design for ease of maintenance.
- Multi tool family capability by the means of dedicated tool specific adapter modules.
- “Scientific Data Systems Inc - Warrior” connectors-wiring compatibility.

Technical specifications

- | | |
|--------------------------------|---|
| • Dimension (W x L x H) | 52 x 50 x 21 cm
20.5 x 19.7 x 8.3 in |
| • Weight | 21.5 kg (46.3 lbs) |
| • Input Voltage | 100-240 VAC, 50-60 Hz
inverter compatible |
| • Tool Power | Up to 400V / 1.3A - (750W) |
| • PC Connection | High Speed USB |
| • Logging Cable | Standard single,
multi-conductor and coax |
| • Tools / Telemetry | ALT Standalone Tools, ALT/MSI
QL Probe line, KUSTER tools,
PROBE1 tools, other third party
tools on demand |
| • Upgradeability | User upgradeable firmware |
| • Software | Logger Suite V 12.1 or later |

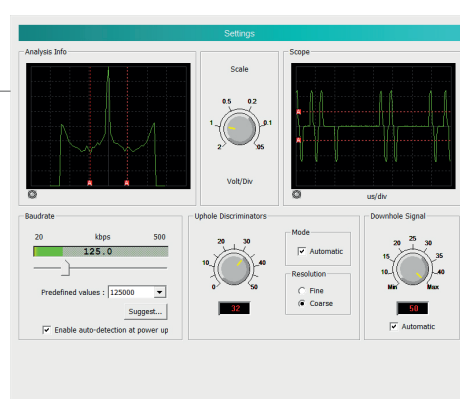
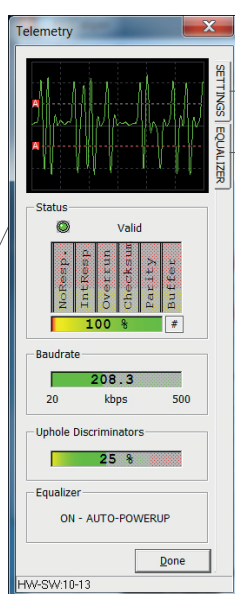
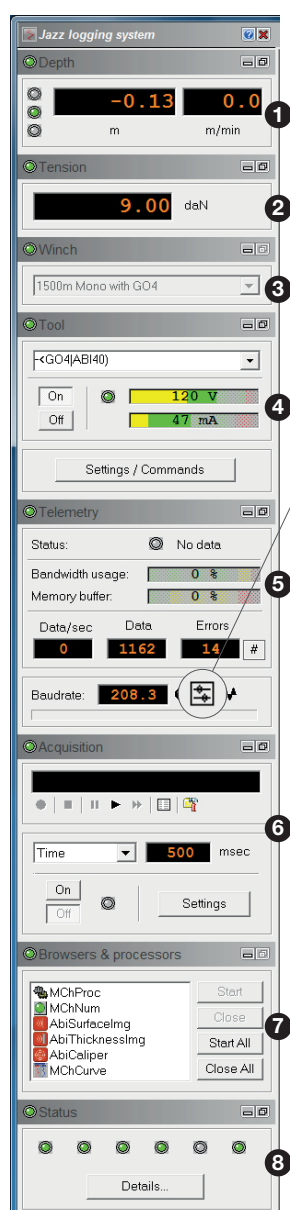
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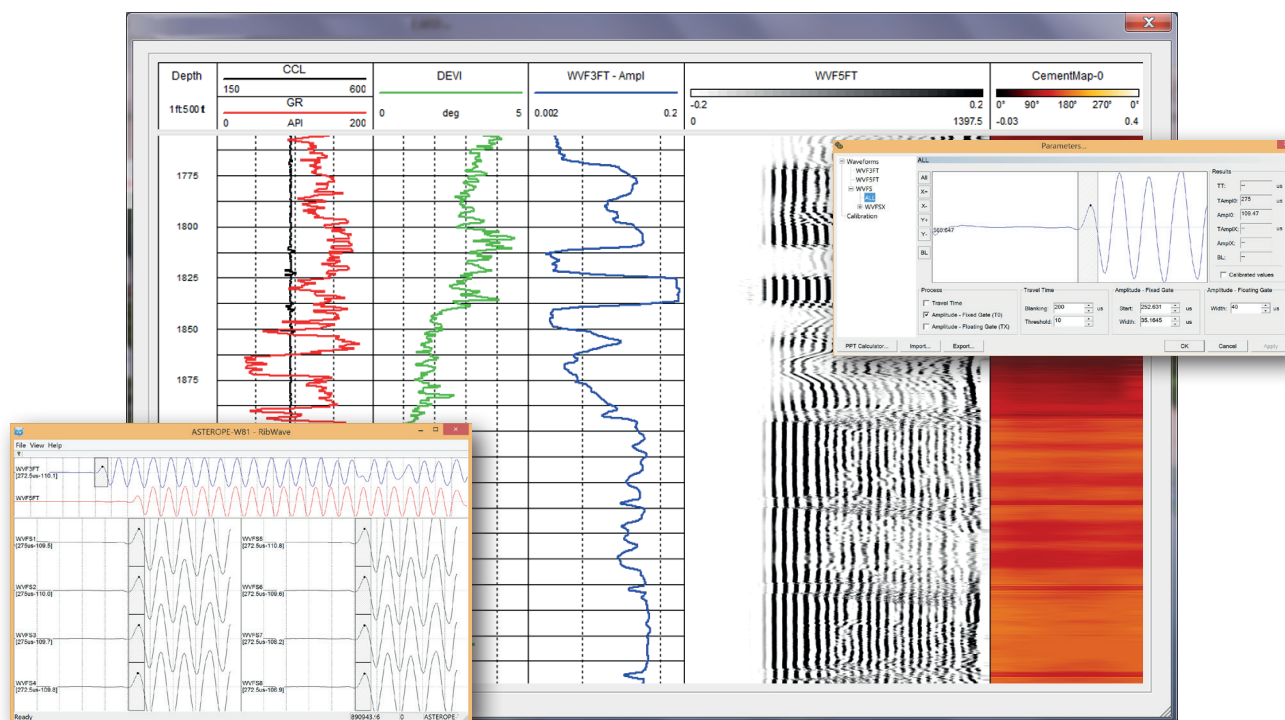
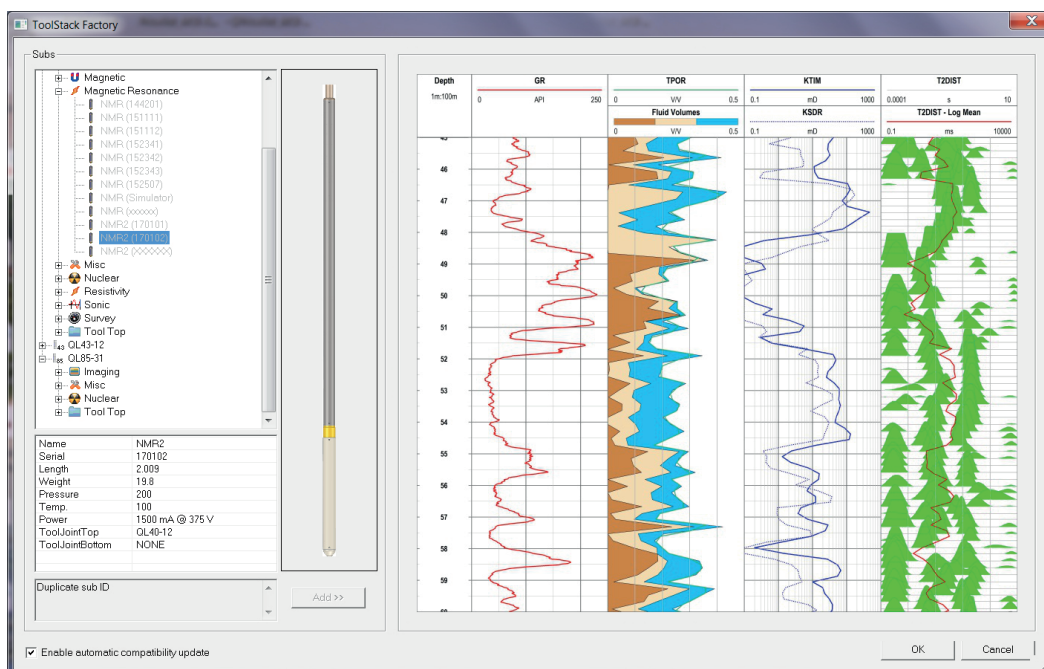


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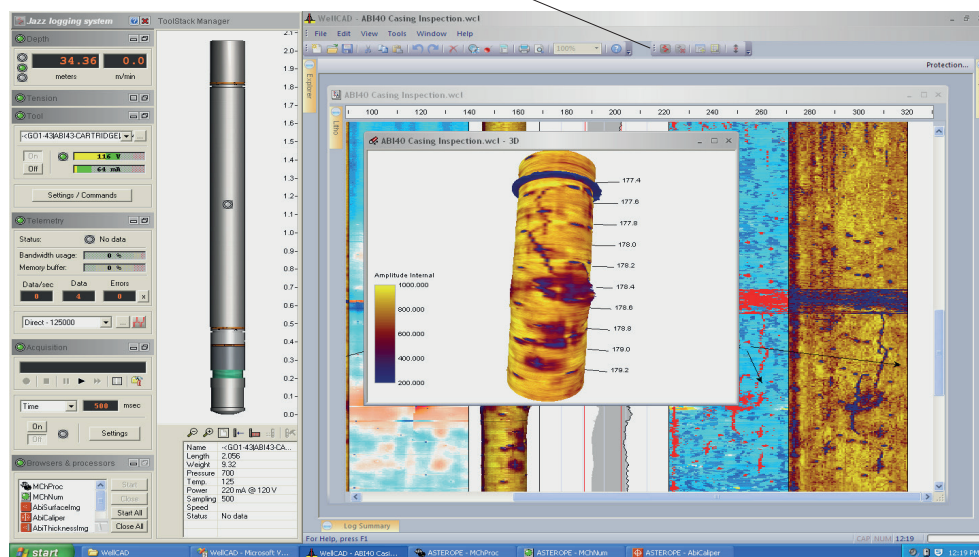


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