

OPAL

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

- 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.
- 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
Optional configuration: 2.6A - 1500W
- **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

