Cement Bond Log (CBL)
PI Data Acquisition System (PIDAS)
Ultrasonic Scan Imaging Tool-V (USI-V)
Acoustic Tool (ACT-C)
Tuning Fork Fluid Density Tool (TFD-C)
Hexapod Segmented Bond Tool (HSB)
Radial Cement Bond Logging System (RadialCBL)
Radial Bond Logging with Memory Mode (RBM)
PI View Processing and Analysis Software

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**PI Data Acquisition System (PIDAS)**

**Features**
- The system records the data including the raw data of the instrument, engineering value and the processed data. The GDR data could be relogged/reprocessed as required later by different parameters.
- The calibration certification data is available in realtime for your convenience. The data out of tolerance will flash for operator’s attention.
- QC data is available in realtime, the QC table/curve could be shown during logging.
- Environment correction could be applied in realtime. Semblance processing is integrated into the realtime system.
- Using personnel safety and data protection systems.
- Reduces wellsite operating time and ensure system reliability by using advanced computer technology and redundant design simplify data acquisition and processing.

**Introduction**

The PI Data Acquisition System (PIDAS) is designed for data acquisition and processing in combination with Open-hole and Cased Hole tool. This PIDAS is based on a portable notebook as a host and GTS remote transmission system with high-speed data communication. Software is based on Windows 7 or above operating system with multi-task & multi-user, and, using a large number of modern image processing technology. By equipment array, imaging and large information, real-time logging data acquisition, control and processing achieves multi-parameter acquisition and multi-task time-sharing processing. These provide conventional and imaging logging curves and record data, logging data transmission and field logging data initial analysis and processing services. System ensures the quality of logging data by using advanced digital data acquisition technology and advanced image display technology.

The benchmark depth system were used for PIDAS to measure the depth and tension.

**Specifications**

<table>
<thead>
<tr>
<th></th>
<th>WAP</th>
<th>AC Power Panel</th>
<th>DC Power Panel</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dimensions</strong></td>
<td>Depth×width×height</td>
<td>Depth×width×height</td>
<td>Depth×width×height</td>
</tr>
<tr>
<td></td>
<td>480 mm×483 mm×133 mm</td>
<td>640 mm×483 mm×89 mm</td>
<td>610 mm×423 mm×89 mm</td>
</tr>
<tr>
<td><strong>Case</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>weight</strong></td>
<td>8.5 kg</td>
<td>24.5 kg</td>
<td>12.5 kg</td>
</tr>
<tr>
<td><strong>Shock</strong></td>
<td>30 g half sine,11 ms.</td>
<td>10 g 10-60 Hz (idle)</td>
<td>Less than 20 g half sine,11 ms.</td>
</tr>
<tr>
<td><strong>Vibration</strong></td>
<td>3 g 10-60 Hz (idle)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Input power</strong></td>
<td>100-240 VAC,47 Hz – 63 Hz</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total weight</strong></td>
<td>45.5 kg without transport box, 80 kg with transport box</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Working temperature</strong></td>
<td>0°C– +50°C</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Storage temperature</strong></td>
<td>-20°C– +70°C</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Relative humidity</strong></td>
<td>&lt;90%</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Output power</strong></td>
<td>0 - 1440 VAC at 1 A, or 0 - 720 VAC at 2 A</td>
<td>0-1000 VDC, 1500 W</td>
<td></td>
</tr>
<tr>
<td><strong>Meters</strong></td>
<td>Voltage and Current monitoring.</td>
<td>Voltage and Current monitoring.</td>
<td></td>
</tr>
<tr>
<td><strong>Switches</strong></td>
<td>Power switch</td>
<td>AC power switch</td>
<td>DC power switch</td>
</tr>
</tbody>
</table>
# Ultrasonic Scan Imaging Tool-V (USI-V)

## Applications
- Ultrasonic Cement Evaluation/ Imaging
- Casing Corrosion Inspection (both Thickness and Diameter).
- Openhole Borehole Imaging
- Fracture Detection
- Combinable with ACT-C tool or DSB for reduced rigtime.
- Real-time fluid cell measures both borehole fluid transit time and fluid impedance for measured data correction.

## Introduction
The USI-V provides a wealth of information about well in both open and cased holes. In open hole, the USI-V provides complete borehole imaging for accurate, precise formation evaluation. In cased hole, ultrasonic pipe inspection and cement evaluation can be obtained simultaneously. Operating over a wide range of downhole environments, the USI-V offers a full 360° profile of the borehole that can be presented in a variety of two- and three-dimensional formats. Powerful, yet user-friendly imaging analysis software is available to process images, histograms, and curve-type data from this advanced logging device. The uplink rate is up to 200 kbps, and power supply is 600 Vdc on the ground.

## Specifications

### Mechanical
- **Maximum Operating Temperature**: 350°F (175°C)
- **Maximum Operating Pressure**: 20,000 psi (137.9 MPa)
- **Length**: 19.1 ft. (5.81 m)
- **Weight**: 316 lbs. (143 kg)
- **Diameter**: 3.5 in. (89 mm)
- **RTS-H Assembly**: 50.4 in. (1.28 m)
- **Electronics Assembly**: 122.15 in. (3.1 m)
- **Scanner Assembly**: 56.1 in. (1.43 m)

### Electrical
- **Power Requirements**: 180 VAC 120 MA
- **Motor Power**: 150 Vdc, 1.5 A
- **Full Load Requirements**: 30 Wac, 225 Wdc

### Measurement
#### Open hole Image Mode
- **Sensor Type**: Piezoelectric ultrasonic transducer on rotating head
- **Firing Rate (shots/scan)**: 200
- **Vertical Scan Rate**: 40 images/ft.
- **Principle**: Ultrasonic Pulse Echo
- **Vertical Sampling Rate (Software)**: 0.3 in.
- **Logging Speed**: 21 ft./min (40 scan/ft., 14 rev/sec)
- **Primary Curves**: Reflected Amplitude and Travel Time
- **Secondary Curves**: Radius, Azimuth, Relative Bearing, Deviation, and Fluid Transit Time
- **Maximum Diameter Hole**: 13 in. (330 mm)
- **Minimum Diameter Hole**: 4.5 in. (114 mm)

#### Cased-Hole Mode
- **Sensor Type**: Piezoelectric on rotating head
- **Firing Rate (shots/scan)**: 100
- **Vertical Scan Rate**: 4 scans/ft. at 3.0 in. sampling
- **Principle**: Ultrasonic Pulse Echo and time of flight
- **Vertical Sampling (Software)**: 6.0, 3.0, or 1.0 in.
- **Logging Speed**: 60, 30 or 10 ft./min (Depending on sampling rate)
- **Primary Curves**: Reflected Amplitude, Radius Acoustic Impedance, and Casing Wall Thickness
- **Secondary Curves**: Relative Bearing, Deviation, Fluid Transit Time, Compressive Strength, and Mud Impedance
- **Minimum Diameter Hole**: 4.276 in. (108 mm)
- **Maximum Diameter Hole**: 13 in. (330 mm)
- **Wireline Requirements**: 7 Conductor

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**Applications**

- Compressional slowness $D_t$
- Cement Bond Logging (CBL) and Variable density logging (VDL)

**Introduction**

This tool was developed to provide high quality compressional $\Delta t$ measurement with minimal operations investment in a relatively small physical tool package. This tool can also run for Cement Bond Logging (CBL), providing information for cement bond quality evaluation.

**Specifications**

- **Max Temperature**: 350°F (175°C) for 8 hours
- **Max Pressure**: 20,000 psi (137.9 MPa)
- **Minimum Hole Size**: 4.50 in. (114 mm)
- **Tool Diameter**: 3.625 in. (92 mm)
- **Make-up Length**: 13 ft.-10.74 in. (4.24 m)
- **Total Weight**: 240 lbs (109 kg)
- **Logging Speed**: 60 ft/min (18 m/min) max.
- **Absolute Accuracy**: +/- .5 microseconds
- **Repeatability**: +/- 1%
- **Vertical Resolution**: 0.5 ft (15.24 cm) Basic measurement

**Receiver(s)**

- **Type**: Piezoelectric (monopole)
- **Bandwidth**: Wideband (1-25 kHz)
- **Number**: 4
- **Spacing**: 6.0 in. (152 mm)
- **Offset**: 3.0 ft. (0.914 m) min. 6.5 ft. (1.98 m) max.

**Transmitter(s)**

- **Type**: Piezoelectric (monopole)
- **Bandwidth**: Broadband (2-18 KHz)
- **Number**: 2
- **Spacing**: 2 ft. (0.6 m)

**Power Requirements**

- **Logging**: 180 Vac@160 mA
- **Wireline Requirements**: 7 conductor
- **Telemetry**: Standard GTS

**Modes**

- **Command**: mode 2
- **Tool Tables**: mode 2
- **Tool Status**: mode 2
- **Data Mapable to**: Mode 5 or Mode 7
- **Tensile Strength**: 17,000 lbs
- **Compressional Strength**: 4,000 lbs
Introduction

TFD-C measures the fluid density and viscosity data in the open hole. TFD-C is a Non-chemical radioactive source tool which provides fluid density measurement. Mud parameters is necessary to complete logging operations for USI-V and other PIDAS tools.

Specifications

- Maximum Temperature: 350°F (175°C)
- Maximum Pressure: 20,000 psi (138 MPa)
- Make-up Length: 57.7 in. (1.21 m)
- Shipping Length: 66.2 in. (1.68 m)
- Weight: 92.6 lb (42 kg)
- Diameter: 3.50 in. (88.9 mm)
- Logging Speed (typical):
  - Standard Resolution: 4 points/ft. (0.0762 m)
  - Vertical Resolution: optional default 2.5 in. (6.35 cm)
- Measure Point: 14.6 in. (37.1 cm) above matching point of bottom of TFD-C
- Density measurement:
  - Measurement Range: 0.0 g/cc to 1.6 g/cc
  - Accuracy/Repeatability: ±0.03 g/cc
- Resolution: 0.01 g/cc
- Viscosity Measurement:
  - Measurement Range: 1.0 cS to 50 cS
- Response Time: ≤2 seconds
- Power Requirements:
  - AC Power Operating: AC 180V, 85 mA
- Wireline Requirements: 7-conductor (30 kft max length)
- Electrical/Telemetry
  - Acquisition Cycle: Fixed sampling interval (times/500 ms)
  - Send Data Cycle: Fixed sampling interval (times/500 ms)
  - Send data Data rate
- Data Rate: (subset 0/M2) 20.83 Kb/s
- Hole Deviation: Vertical to horizontal
- Minimum Tool String: TGO+TFD-C
- Combination: GTS Compatible
- Tensile Strength: 17,000 lbs (7,684 kgf)
- Compressional Strength: 4,000 lbs (1,808 kgf)
Hexapod Segmented Bond Tool (HSB)

Applications
- Evaluate cement bond quality in six sectors
- Cased-hole wells
- Continuous cement map
- Advanced channel analysis

Introduction
The HSB is a unique cement bond logging tool. It can find and define channels in the cement annulus which could result in a poor hydraulic seal. Conversely, the HSB can reliably find zones of uniform bonding over only a few feet of casing. Under conditions where a short bonded interval produces an adequate hydraulic seal, unnecessary squeeze jobs can be avoided.

Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Temperature</td>
<td>350°F (175°C)</td>
</tr>
<tr>
<td>Maximum Pressure</td>
<td>20,000 psi (137.9 MPa)</td>
</tr>
<tr>
<td>Minimum Casing ID.</td>
<td>4.0 in. ID (101.6 mm)</td>
</tr>
<tr>
<td>Maximum Casing ID.</td>
<td>15.5 in. ID (393.7 mm)</td>
</tr>
<tr>
<td>Tool Diameter</td>
<td>3.38 in. (85.7 mm)</td>
</tr>
<tr>
<td>Make-up Length</td>
<td></td>
</tr>
<tr>
<td>Pad section</td>
<td>17 ft.-3.87 in. (5.28 m)</td>
</tr>
<tr>
<td>VDL section</td>
<td>7 ft.-8.13 in. (2.34 m)</td>
</tr>
<tr>
<td>Shipping Length</td>
<td></td>
</tr>
<tr>
<td>Pad section</td>
<td>19 ft. (5.79 m)</td>
</tr>
<tr>
<td>VDL section</td>
<td>9 ft.-3.81 in. (2.84 m)</td>
</tr>
<tr>
<td>Weight</td>
<td></td>
</tr>
<tr>
<td>Pad section</td>
<td>240 lbs. (108 kg)</td>
</tr>
<tr>
<td>VDL section</td>
<td>108 lbs. (49 kg)</td>
</tr>
<tr>
<td>Maximum Logging Speed</td>
<td></td>
</tr>
<tr>
<td>Auxiliary Data Mode</td>
<td>Limited only by GR resolution required</td>
</tr>
<tr>
<td>Normal Mode</td>
<td>35 ft./min (10.7 m/min)</td>
</tr>
<tr>
<td>Measurement Range</td>
<td>0-22 dB/ft. Compensated attenuation</td>
</tr>
<tr>
<td>Absolute Accuracy</td>
<td>±1.0 dB/ft. or 10% of log value</td>
</tr>
<tr>
<td>Repeatability</td>
<td>±1.0 dB/ft. or 10% of log value</td>
</tr>
<tr>
<td>Vertical Resolution</td>
<td>0.25 ft. (76.2 mm) Basic measurement</td>
</tr>
<tr>
<td></td>
<td>Normal Presentation presents data averaged over 3 ft. (91 mm)</td>
</tr>
<tr>
<td>Radial Resolution</td>
<td>60 degrees</td>
</tr>
<tr>
<td>Depth of Investigation</td>
<td>2 in. (50.8 mm)</td>
</tr>
<tr>
<td>Power Requirements</td>
<td></td>
</tr>
<tr>
<td>Logging</td>
<td>150 Vdc at 120 mA</td>
</tr>
<tr>
<td>Motor Opening</td>
<td>150 Vdc minimum at 0.25 Ampere for 60 seconds</td>
</tr>
<tr>
<td>Motor Closing</td>
<td>150 Vdc minimum at 0.25 Ampere for 60 seconds</td>
</tr>
<tr>
<td>Wireline Requirements</td>
<td>Single conductor</td>
</tr>
<tr>
<td>Conductor Utilization</td>
<td>N/A (Single Conductor)</td>
</tr>
<tr>
<td>Detector Type</td>
<td></td>
</tr>
<tr>
<td>VDL</td>
<td>20 kHz Piezo-electric cylinder</td>
</tr>
<tr>
<td>Pads</td>
<td>100 kHz Piezo-electric Stack</td>
</tr>
<tr>
<td>Pad Force</td>
<td>50 lbs. (22.7 kg)</td>
</tr>
</tbody>
</table>
Radial Cement Bond Logging System (RadialCBL)

Applications
- Evaluation of cement bond quality and integrity.
- Location of free-pipe and cement-top.

Features
- 360° cement bond imaging view
- RBM could combine with a pipe scraper, logging while pipe cleaning under thru-pipe logging memory mode.
- OSB & DSB could combine with Ultrasonic Scan Imaging Tool-V (USI-V).
- Combine with Multi-Finger Imaging Tool (MFI-24/MFI-40/MFI-60).
- Suitable for Warrior System

Introduction
The Radial Cement Bond Tools provide the operator with an accurate and economic means of inspecting the quality of the cement bond to casing and formation. The tools evaluate the cement bond quality and integrity to both casing and formation by providing the measurements of the cement bond amplitude (CBL) through the near receiver (3 feet), and variable density log (VDL) through the far receiver (5 feet). Depending on tool size, the tool has the tool has 6/8/12 segmented receivers segmented receivers. These radial receivers are used to provide a high resolution cement bond imaging view.

Specifications

<table>
<thead>
<tr>
<th></th>
<th>Radial Bond Logging with Memory Mode (RBM) (6 segments)</th>
<th>Octopod Segmented Bond Tool (OSB) (8 segments)</th>
<th>Dodeca Segmented Bond Tool (DSB) (12 segments)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure (Maximum)</td>
<td>20,000 psi (140 MPa)</td>
<td>20,000 psi (140 MPa)</td>
<td>20,000 psi (140 MPa)</td>
</tr>
<tr>
<td>Temperature (Maximum)</td>
<td>350°F (175°C)</td>
<td>350°F (175°C)</td>
<td>350°F/175°C (400°F/204°C (Option)**</td>
</tr>
<tr>
<td>Diameter</td>
<td>2.88 in. (73 mm)</td>
<td>Monopole (18-24 kHz)</td>
<td>Monopole (18-24 kHz)</td>
</tr>
<tr>
<td>Length</td>
<td>11.48 ft. (3.5 m)</td>
<td>Monopole (18-24 kHz)</td>
<td>Monopole (18-24 kHz)</td>
</tr>
<tr>
<td>Weight</td>
<td>110 lb (50 kg)</td>
<td>Monopole (18-24 kHz)</td>
<td>Monopole (18-24 kHz)</td>
</tr>
<tr>
<td>Radius Receiver (5 ft.)</td>
<td>8 segments synthesized</td>
<td>Monopole (18-24 kHz)</td>
<td>Monopole (18-24 kHz)</td>
</tr>
<tr>
<td>Weight</td>
<td>231.48 lb (105 kg)</td>
<td>Monopole (18-24 kHz)</td>
<td>Monopole (18-24 kHz)</td>
</tr>
</tbody>
</table>

Transducer Type

<table>
<thead>
<tr>
<th>Receiver(s)</th>
<th>Bandwidth (18-32 kHz)</th>
<th>Bandwidth (18-24 kHz)</th>
<th>Bandwidth (18-24 kHz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Receiver(s)</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

Recommended Casing Range

<table>
<thead>
<tr>
<th>Minimum Casing OD</th>
<th>2.875 in. (190.5 mm)</th>
<th>8 segments</th>
<th>7.5 in. (254 mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Casing OD</td>
<td>10 in. (273 mm)</td>
<td>12 segments</td>
<td>10 in. (273 mm)</td>
</tr>
</tbody>
</table>

Data Acquisition

<table>
<thead>
<tr>
<th>Maximum Logging Speed</th>
<th>100 ft./min (30 m/min)**</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tool Positioning</td>
<td>Centralized</td>
</tr>
<tr>
<td>Gamma Ray</td>
<td>Optional Integrated</td>
</tr>
<tr>
<td>CCL</td>
<td>Optional Integrated</td>
</tr>
<tr>
<td>Temperature</td>
<td>Optional Integrated</td>
</tr>
</tbody>
</table>

Power Requirements

<table>
<thead>
<tr>
<th>Input Voltage</th>
<th>180 to 220 Vdc</th>
<th>150 Vdc/180 Vac***</th>
<th>150 Vdc/180 Vac***</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Current Required</td>
<td>50 mA</td>
<td>90 mA</td>
<td>80 to 90 mA</td>
</tr>
</tbody>
</table>

* The length of the toolstring is increased cause temperature flask is added.
** The Max speed is 30 ft/min (9 m/min) if connect with USI-V.
*** If connect with USI-V, the power supply is 180 Vac by 7-conductor cable.
Radial Bond Logging with Memory Mode (RBM)

**Applications**
- Evaluation of cement quality
- Determination of zone isolation
- Location of cement top

**Features**
- Operate with in Memory Mode or Wireline Mode
- Combine with a pipe scraper, logging while pipe cleaning.
- Thru-pipe logging with memory mode
- Tractor logging for horizontal well
- Attach to the Warrior system.

**Introduction**

The RBM is a six segment acoustic logging tool with 1.78 in. (45 mm) or 2.13 in. (54 mm) of outside diameter. It could be operated with in memory mode or wireline mode, as a slim tool. Thru-pipe logging under memory mode has been realized. It can be combined with pipe scraper, logging while pipe cleaning. It also could be combined by Downhole Casing&Tubing Tractor logging for horizontal well. In can be attached to the Warrior system.

It evaluates cement bond integrity. In addition to measures of the amplitude of sonic signal passing along the casing, the RBM radial receiver generates a map of the cement.

The RBM is equipped with one transmitter and two sensors constructed of piezoelectric crystals. The Near receiver, located 3 ft from the transmitter, is constructed of a 6-sector radial receiver. Each sector provides bond data covering a 60 degree section of casing. The primary amplitude is constructed from radial signals at the near receiver. The far receiver, located 5' from the transmitter, generates a Variable Density Log (VDL).

The RBM deploys in deviated/horizontal holes. It slotted sleeve technology imparts sound isolation, rigidity and tool strength. The housing is comprised of corrosion resistant materials throughout.

**Specifications**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Temperature</td>
<td>350°F (175°C)</td>
</tr>
<tr>
<td>Maximum Pressure</td>
<td>20,000 psi (137.9 MPa)</td>
</tr>
<tr>
<td>Max Electronic OD</td>
<td>1.78 in. (45 mm)</td>
</tr>
<tr>
<td>Max Mandrel OD</td>
<td>1.78 in. (45 mm)</td>
</tr>
<tr>
<td></td>
<td>Maximum Casing Size 7.5 in. (190.5 mm)</td>
</tr>
<tr>
<td></td>
<td>2.13 in. (54 mm)</td>
</tr>
<tr>
<td></td>
<td>Maximum Casing Size 10 in. (254 mm)</td>
</tr>
<tr>
<td>Minimum Hole Diameter</td>
<td>3.5 in. (89 mm)</td>
</tr>
<tr>
<td>Make-up Length</td>
<td>9.93 ft. (3.03 m)</td>
</tr>
<tr>
<td>Shipping Length</td>
<td>10.27 ft. (3.13 m)</td>
</tr>
<tr>
<td>Weight</td>
<td>18.1 kg (40 lbs)</td>
</tr>
<tr>
<td>Supply Voltage</td>
<td>18 Vdc</td>
</tr>
<tr>
<td>Power/Current</td>
<td>50 mA</td>
</tr>
<tr>
<td>Transmitters/Receivers</td>
<td>Piezoelectric crystal</td>
</tr>
<tr>
<td>Signal Output</td>
<td>3 ft amplitude, 5 ft VDL and a cement quality map generated by the calibrated 6-segment receiver array</td>
</tr>
<tr>
<td>Maximum Logging Speed</td>
<td>21 m/min</td>
</tr>
<tr>
<td>Borehole Environment</td>
<td>Fluid Media (i.e., brine, oil, fresh water, drilling mud)</td>
</tr>
<tr>
<td>Operation Mode</td>
<td>Memory Mode or Wireline-Mode</td>
</tr>
<tr>
<td>Wireline Requirements</td>
<td>Monocable</td>
</tr>
</tbody>
</table>
**Introduction**

PI View (Petroleum Integrate View) is logging data processing and analysis software platform. PI View includes logging data import, data management, cross-plot, environmental correction, petrophysical analysis, mineral content calculation, reservoir fluid analysis, petrographic analysis, data statistical analysis, and other functions. PI View can process various companies' conventional logging data, imaging logging data, multi-array/sonic/ultrasonic cement evaluation logging data, wireline formation test, core analysis, C/O, production logging data.
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