

DataFusion

The DataFusion Surface Acquisition system is unique in its capabilities.

It brings together the latest in surface hardware and software technology to augment Olidens outstanding downhole equipment capabilities.

- Hardware - Signal processing and I.S. hardware, sensors, cables, junction box, rig floor display
- Software - Acquires, filters, decodes, calculates and converts, stores, prints, replays and transmits MWD, LWD and surface data for local or remote analysis and usage in both depth and time domains.

The 'Floater' variant of the DataFusion increases the capabilities to allow operations on floating rigs by using a Heave Compensation system.

Designed with modularity in mind, the 'Professional' system can easily be upgraded to the 'Floater' system (1).



Variant	Safe Area equipment					Hazardous Area Equipment							
	Panasonic Toughbook	Monitor	Surface Acquisition Unit (SAU)	RigFloor Display	Black & White Plotter for printing logs	Drawworks Depth Sensor	Qty 2 * Signal Pressure Transducer	Clamp-On Hookload Sensor	Shielded MultiCore and sensor cables	Rig Floor Junction Box	Heave Compensat or Depth Sensor	Geograph Depth Sensor	Pump Stroke Counters
Professional	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
Floater	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

(1) To upgrade from 'Professional' to 'Floater' variants simply procure a larger multi-core cable and the required sensors, it's that simple.

(2) Color plotter available

DataFusion

Superior hardware and software design allows lower signal to noise ratios to be decoded correctly, meaning that deeper depths can be drilled at faster telemetry rates.

Application

- High tier (professional) MWD and LWD jobs
- Class 1 Div 1 wellsite conditions
- Noisy Mud Pumps environment
- Floating Rigs LWD jobs
- Complex multiple pass data set splices

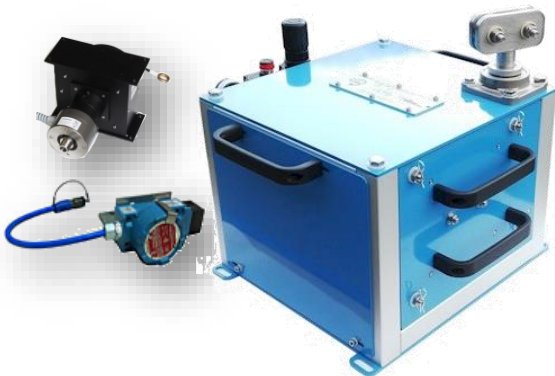
Benefit

- Excellent depth tracking accuracy
- Higher telemetry rates at deeper depths
- Less time in static conditions (stuck pipe risk)
- 300ft cable run from rig floor to logging unit

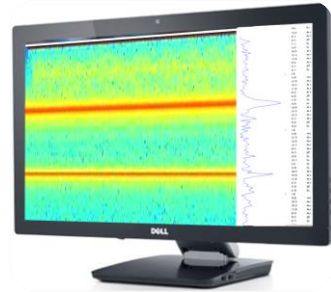
Features

- Enhanced telemetry signal to noise ratio capabilities
- Two depth systems allowing depth compensation for floating rigs.
- Enhanced noise immunity built into cabling system
- Logs and LAS data available in MD and TVD Depth domain, as well as Time domain.
- Recorded Mode processing
- Smart depth correction
- Multiple depth passes and data splicing
- Zoned environmental processing for LWD curves
- RT and RM Image processing and displays
- Simple 'drag and drop' user operation
- WITS IN and OUT

'Floater' upgrade package



Spectrograph for visualizing signal/noise history



'Professional' variant sensors, cabling system & SAU



Sensor Specifications

Depth Sensor	Zone 0, Class 1 Div 1, -40°C
Hookload Sensor	Zone 0, Class 1 Div 1, -40°C
Signal Pressure Transducer	Zone 0, Class 1 Div 1, -40°C
Geolograph	Zone 0, Class 1 Div 1, -40°C
Heave Compensator	Zone 0, Class 1 Div 1, -40°C

Operating Specification

Power Supply	100-240V, 50-60Hz
Hazardous Area Operating temps.	-40°C to 60°C
Safe Area Operating temps.	-10°C to 50°C
Equipment Storage temps	-10°C to 85°C