Overview:

The 12" KeyDrill Decoding Unit (KDU-Mini) combines the functionality of a Laptop, Rig Floor Display and Wireless Transceiver Set into one system. The pressure transducer connects directly to the KDU-Mini which acquires, processes, and decodes the mud-pulses generated by the downhole MWD tools. The decoded data is then sent wirelessly to the laptop computer in the trailer where it can be viewed, plotted and further analyzed on a laptop computer. This is a complete surface system that is compatible with most popular Q-Bus and CAN-Bus Mud Pulse MWD tools.

Features:

- Parameters decoded and displayed: Tool Face, Inclination, Azimuth, Magnetic Field, Gravity Field, Dip Angle, Gamma, Pressure, Battery Voltage, Temperature, Avg. Reliabilities, Resistivity, Pulse Amplitude, Pulse Width

- Uses "plug and play" automatic detection technology to optimally adapt the receiver settings without need for user interaction. This feature makes setup less prone to errors and independent of operator skill level, preventing costly mistakes in the field.

- KeyDrill's Advanced Receiver Technology has the ability to detect 1 PSI and capable of 1 pulse sync making it the highest performing Mud Pulse Receiver on the market.

- Supports standard WITS and other popular depth tracking systems.

- Its compact, rugged and lightweight construction allow for easy transport to any location.

- The display brightness can be adjusted for easy viewing in bright sunlight or in low light conditions.

- The built in visor protects the screen during transport and can be adjusted to reduce glare on the screen.

- Compatible and works universally with the most popular Q-Bus and CAN-Bus MWD tools on the market.

- Application software is pre-loaded.

The KeyDrill Advantage over the Rest:

Automatic Detection Technology

KeyDrill Decoding System does not require operator input, it automatically makes adjustments to optimize decoding. Our competitors' performance is closely dependent on the operator's skill in setting pulse thresholds.

Superior Detection Capability

The KDU-Mini can decode as low as 1 PSI pulses. Most of the competition's receivers cannot detect pulses less than 3 PSI.

Advanced Synchronization Technology

This technology makes the one pulse sync possible. It opens the door to solutions for various challenging sync patterns caused by poor signal environments such as very deep and PDC Bit drilling, etc. These situations cause the sync pulse patterns and their amplitude to be so distorted that traditional sync technology will not work. KeyDrill makes synchronization possible in the worst conditions.

Specifications:

Intel® Atom™ E3800 Dual Core Processor @ 1.91GHz

4GB DDR3L-1333MT/s SDRAM

64GB SATA III Solid State Drive

Integrated Intel® Gen 7 Graphics Chipset

12.1"XGA Resistive Touch LCD (1024x768), 1600 nits with AR coating

USB (1), Ethernet (1), Tool Config (1), Transducer (1)

Manual dimming function

Chain mount or VESA-75 rear mount

Windows 7 Pro & KDT Decoding Software preloaded

Operation power: . . . . 90-240 VAC, 50-65Hz

Operation Temperature: . . . . -20° to 50°C

Storage Temperature: . . . . -40° to 80° C

Vibration: . . . . 3G RMS

Weight: . . . . 8 lbs.

Dimension: . . . . 10"x 13"x 3.25"