

EM CORE-TECHNOLOGY MODULAR TOOL

START WITH THE CORE TECHNOLOGY KIT

Each Core Kit Contains:

EM Surface Transceiver Unit & EMSA Laptop, x2



+

EM Transceiver, x2



+

Tool Test Cable, x2



+

Safety Barrier Box, x2



+

Tool Programming Cable, x2



Drill Dog™

PL
+

CHOOSE TOP OR BOTTOM MOUNT & INTERCONNECTION CONFIGURATION

Top Mount Tensor Style



Bottom Mount Tensor Style



Bottom Mount No Bulkhead Connectors



US

ADD YOUR OPTION GROUPS

Battery Depassivator Group



x2

+



Radio Modem Group



x2

+



x2

+



x2

+



Roll Test Group



x1

+



x1

+

Drill Dog Roll Test Application



Custom Bulkhead Group



x2

+



x2

Harness Group

x2



+



x2

THE BEST TECHNOLOGY AVAILABLE

The Drill Dog™ EM telemetry system is the only MWD system available that incorporates Intelligent Channel Coding™ an exclusive adaptive digital modulation technology used to increase noise rejection and improve aggregate receiver sensitivity. This new proprietary technique, referred to as ICC™, incorporates noisy channel encoding algorithms to encrypt uplink signal packets. This encryption process adaptively shapes the spectral content of the EM signal based on the ambient noise present in the communication channel. ICC technology enables the Drill Dog EM system to avoid signal interference within the channel spectrum such as DC-motor electrical noise generated by top-drives or electromechanical rotary noise commonly associated with Kelly drives. ICC encryption also delivers improved immunity against communication channel burst noise (i.e. aperiodic in-band noise) that typically obscures portions of a digitally modulated uplink packet. ICC negates burst noise by digitally averaging the noise across all the bits contained in an encrypted uplink packet; thereby increasing the surface receiver aggregate sensitivity. ICC technology also uses much less power to transmit uplinks than conventional EM MWD systems thus maximizing downhole battery life and allowing the system to function at deeper depths even in unfavorable formation lithologies.

Drill Dog, ICC, and Intelligent Channel Coding are Trademarks of E-Spectrum Technologies, Inc.

