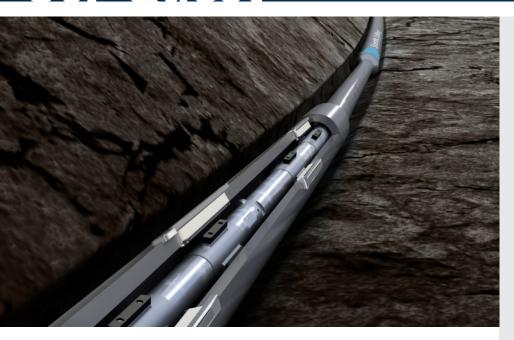
Sci-Quest™



Sci-Quest™ is Scientific Drilling's probe-based resistivity technology. It provides a fit-for-purpose and cost-effective solution for clients looking to collect resistivity measurements for use in qualitative analysis such as geosteering or formation correlation.

Sci-Quest™ is designed to operate at higher temperatures, delivering better power management, and overall higher reliability.

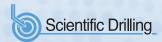
For more information on improving your drilling efficiency [while staying on target] contact your Scientific Drilling sales representative or visit: http://scientificdrilling.com/LWD

APPLICATIONS

- Geosteering
- Formation correlation
- Payzone identification
- Casing and coring point selection

BENEFITS

- Enhanced data quality increases accuracy and improves drilling confidence
- Better power management enables longer runs downhole
- Innovative design allows higher dog leg curves
- Optimal performance at temperatures up to 302°F (150°C)
- Premium serviceability delivers
 economical gain
- + High-speed data streaming allows real-time ranging calculation
- Considered the most accurate long range tool on the market
- Improved reliability, greatly reducing non-productive time



GENERAL SPECIFICAT	IONS							
COLLAR OD	4.75"	6.50"	6.75"	8.00"				
LENGTH		15 ft (MWD/LWD in separate collars) 30 ft (MWD/LWD in same collar)						
MAX DOGLEG (°100 ft) ROTATING SLIDING	10 26	8 19	8 16	6 12				
POWER SOURCE & OPERATING HOURS	Lithium Batteries - 150+ run hours							
MAX OPERATING PRESSURE	18,000 PSI							
MAX OPERATING TEMPERATURE	302° F (150° C)							
MAX DIFFERENTIAL PRESSURE	Real-time 3D data presentation while ranging							
MAX WOB (lbf)	15,000	40,000	40,000	52,000				
MAX ROTARY TORQUE (ft/lb)	4,000	7,800	7,800	7,800				
MAX FLOW RATE (gal/min)	330	600	750	1,000				
SONDE OD & LENGTH	1.75 in Diameter & 55 in long							
MEMORY CAPACITY	2 GB							
MEASUREMENT SPEC	IFICATIONS							

OPERATING FREQUENCY			2 MHz	<u>,</u>		
MEASUREMENT SPACING		23 in & 33 in				
PHASE SHIFT RESISTIVITY	23 in	RANGE 0.2 to 20 ohm-m 20 to 80 ohm-m 80 to 1,000 ohm-m		±1.0% ±0.3%		
	33 in	0.2 to 20 20 to 80 80 to 1,0		±0.2% ±0.5 m ±0.1 m		
ATTENUATION RESISTIVITY 2		RANGE 0.2 to 20 ohm-m 20 to 80 ohm-m 80 to 1,000 ohm-m		±0.6% ±3.0%		
		0.2 to 20 ohm-m 20 to 80 ohm-m 80 to 1,000 ohm-m			±0.5% ±2.0 mS/m ±0.25 mS/m	
VERTICAL RESOLUTION (inches)		PHASE		ATTENUATION		
MEASUREMENT SPACING R = 0.2 ohm-m R = 1.0 ohm-m R = 10 ohm-m R = 20 ohm-m		23 in 10 11 13 14	33 in 10 10 13 14	23 in 11 14 52 60	33 in 10 13 61 71	
DEPTH INVESTGATION (inches) MEASUREMENT SPACING		PHASE 23 in 33 in		ATTENUATION 23 in 33 in		
R = 0.2 ohm-m R = 1.0 ohm-m R = 10 ohm-m R = 20 ohm-m		9 12 20 23	10 15 25 29	14 20 37 46	17 24 43 53	
R = 10 ohm-m				46		





