



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 SPECIFICATIONS

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	10	8	8	6
SLIDING	26	19	16	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 SPECIFICATIONS

OPERATING FREQUENCY	2 MHz			
MEASUREMENT SPACING	23 in & 33 in			
PHASE SHIFT RESISTIVITY		RANGE	ACCURACY	
	23 in	0.2 to 20 ohm-m 20 to 80 ohm-m 80 to 1,000 ohm-m	±1.0% ±0.3% ±0.1 mS/m	
	33 in	0.2 to 20 ohm-m 20 to 80 ohm-m 80 to 1,000 ohm-m	±0.2% ±0.5 mS/m ±0.1 mS/m	
ATTENUATION RESISTIVITY		RANGE	ACCURACY	
	23 in	0.2 to 20 ohm-m 20 to 80 ohm-m 80 to 1,000 ohm-m	±0.6% ±3.0% ±0.6 mS/m	
	33 in	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	23 in	33 in	23 in	33 in
R = 0.2 ohm-m	10	10	11	10
R = 1.0 ohm-m	11	10	14	13
R = 10 ohm-m	13	13	52	61
R = 20 ohm-m	14	14	60	71
DEPTH INVESTIGATION (inches)		PHASE	ATTENUATION	
MEASUREMENT SPACING	23 in	33 in	23 in	33 in
R = 0.2 ohm-m	9	10	14	17
R = 1.0 ohm-m	12	15	20	24
R = 10 ohm-m	20	25	37	43
R = 20 ohm-m	23	29	46	53
BOREHOLE CORRECTION CHARTS	Available upon request			

*Specifications are subject to change without notice

