



Scientific Drilling's Sci-Guide™ provides azimuthal gamma ray and inclination measurements close to the bit. It is an excellent tool used in Geosteering applications to stay within the "sweet spot" of the reservoir.

On the Bottom Hole Assembly (BHA), Sci-Guide is extended and placed just above the motor giving the client enough time to quickly react to formation changes.

Sci-Guide can be run with any of SDI's MWD and LWD systems in all configurations.

For more information on LWD solutions, contact your Scientific Drilling sales representative or visit:

<http://scientificdrilling.com/lwd>

APPLICATIONS

- + Shale from non-shale distinction
- + Lithology identification
- + Formation correlation
- + Casing and coring point selection
- + Geosteering
- + Shale volume estimation
- + Formation thickness

BENEFITS

- + Maintains maximum reservoir contact by using azimuthal gamma ray and continuous inclination measurements for geosteering
- + Inclination measurement can be positioned 20 to 25 ft (6 to 8m) closer to the bit than standard MWD survey tool, contributing to a smoother wellbore and easier completion.
- + Delivers overall increased ROP by using the azimuthal gamma ray and inclination measurements to keep the bit within zone of interest in the reservoir

GENERAL SPECIFICATIONS

COLLAR OD	3.125 in (79.4 mm)	
	3.5 in (88.9 mm)	
	4.75 in (120.7 mm)	
	6.5 in (165.1 mm)	
	6.75 in (171.5 mm)	
	8.0 in (203.2 mm)	
	9.5 in (241.3 mm)	
PROBE OD	1.75 in (44.5 mm)	
PROBE LENGTH	38.5 in (97.79 cm)	
MAX DOG LEG (Deg/100 ft, OD)	SLIDING	ROTATING
	12° (9.5 in)	5° (9.5 in)
	12° (8 in)	7° (8 in)
	19° (6.75 in)	8° (6.75 in)
	20° (6.5 in)	10° (6.5 in)
	28° (4.75 in)	12° (4.75 in)
	60° (3.5 in)	20° (3.5 in)
	65° (3.125 in)	20° (3.125 in)
MAX OPERATING TEMPERATURE	302°F (150°C)	
MAX OPERATING TEMPERATURE	20,000 psi (137,900 kPa) (30,000 psi available)	
FLOW RANGE PER TOOL SIZE	TOOL OD	GAL/MIN
	3.125 – 3.875 in	50 – 200
	4.750 – 6.500 in	100 – 400
	6.250 – 6.500 in	200 – 600
	5.000 – 8.000 in	250 – 1,000
	9.5 in	300 – 1,500

MEASUREMENT SPECIFICATIONS

DETECTOR TYPE	NaI Scintillation Crystal
INCLINATION ACCURACY	± 0.15° all angles
GAMMA RANGE	0 - 1,000 AAPi
AZIMUTHAL GAMMA BINS	2

*Specifications are subject to change without notice

