

# PRODUCT SPEC SHEET

## SCI - GAMMA™ API Natural Gamma Ray

Scientific Drilling's Sci-Gamma is a probe-based, API calibrated sensor that detects naturally occurring gamma radiations from the formation.

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

On the Bottom Hole Assembly (BHA), Sci-Gamma is placed just above the motor allowing the reservoir to be quickly detected.

Real-time gamma data from the tool can be used to correlate with offset logs giving the client confidence as drilling progresses.



### DELIVERING THE ULTIMATE VALUE

- Provides API gamma ray measurements that are 20 to 25 ft (6 to 8m) closer than standard MWD measurements
- Works seamlessly with both MP and EM MWD systems to send real-time measurements to surface
- Innovative design allows one probe to run in all BHA sizes

### TARGET APPLICATIONS

- Distinguish shales from non-shales
- Lithology identification
- Formation correlation
- Picking casing and coring points
- Geosteering
- Shale volume estimation
- Formation thickness

### TECHNICAL SPECIFICATIONS

#### 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)	
Collar OD	9.5 in (241.3 mm)	
Probe OD	1.75 in (44.5 mm) diameter	
Probe Length	30 in (762 mm) long	
Max. Dog Leg (Degree per 100 ft O.D)	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 Pressure	20,000 psi (137,900 kPa) (30,000 psi available)	
Range of Flow Rates per Tool Size	Tool OD	Gallons/Minute
	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	
<b>MEASUREMENT SPECIFICATIONS</b>		
Detector Type	NaI Scintillation Crystal	
Gamma Range	0 - 1,000 AAPI	
Recording Rate	1 data point every 5 seconds	

\*\* Specifications are subject to change without notice.

Updated January 2014  
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