

# GYRO SHOT®

Gyroscopically-oriented Borehole Survey Tools



- **At last - A true slim line gyroscopic tool**

Gyro Shot® tools use a tri-axial gyroscope module to monitor the rotation of the instrument through time. Continuous recording and self-calibration permits long-term operation while maintaining accuracy. Gyro Shot® tools also contain a magnetometer that can be used to record the magnetic profile of the hole or, in the absence of external fields, as a second independent measure of the whole azimuth.

- **Through-the-bit surveys are a thing of the past (unless you want to)**

Unless magnetic measurements of the rock are important, the Gyro Shot is run inside the rods, thereby eliminating the risk of through the-bit surveys. If you want magnetic data, you must run through the-bit. The Gyro Shot is slim enough to do this even in AQ rods!

- **Memory based**

The Gyro Shot® is a memory-based tool. This means that unlike some other gyro systems, there is no need to connect the instrument to the surface with a wire.

- **Instant results**

Gyro Shot® tools are completely digital, meaning that survey results are available immediately upon recovery. Digital data also mean no more date entry errors. Menu-driven software provided with Gyro Shot® tools produces data files suitable for loading into spreadsheets and popular data-visualization software.

- **Any Direction**

Gyro Shot® tools can operate in any orientation. Horizontal or vertical holes present no difficulties.

- **Easy to use**

Gyro Shot® tools are very simple to operate. No special training is required.

- **Operates like a multishot**

The Gyro Shot® operates much like a multishot. The tool is run through the hole and is halted at intervals to take static shots.

- **Trouble Free**

The design philosophy ensures trouble-free operation. Unlike our competitors, batteries are fully-replaceable. No special tools are required to operate our equipment and we avoid proprietary “black box” radio communications interfaces that are banned from some work sites.



## SPECIFICATIONS

Sensor:	Type:	Range:	Accuracy:	Shock:
Inclination	Triaxial	360° (any orientation)	±0.1°	6000g
Gyroscope	Triaxial	0-195 deg/s	±1° + 0.5°/hr	2000g
Magnetometer	Triaxial	100 000 Nt	±0.5°	N/A
Temperature	Solid State	-30°C to +85°C	±1°C	N/A

## DIMENSIONS

	Diameter:	Lenght:	Weight:	Pressure rating:
<b>Bare Instrument</b>	25.4 mm (1.00")	1.14 m (44.8")	1.9 kg (4.2 lbs)	300 m (H <sub>2</sub> O)
<b>In pressure barrel</b>	33.4 mm (1.315")	1.88 m (73.8")	8.6 kg (19 lbs)	3500 m (H <sub>2</sub> O)

**Run time:** 22 hours (memory limited)  
**Temperature range:** -30°C +85°C  
**Power:** 6 x AA field-replaceable alkaline batteries  
**Upgrades:** Firmware field-upgradeable; no-charge software updates



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