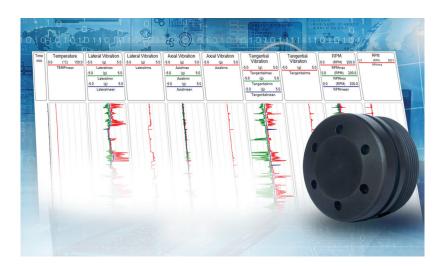
BlackBox Eclipse II Downhole Measurement Tool

The BlackBox™ Eclipse II downhole measurement tool is a descendant of the BlackBox Eclipse drilling dynamics memory-mode logging tool, offering additional features, such as increased accuracy, higher resolution, and higher frequency continuous sampling. The BlackBox Eclipse II tool is deployed in a BlackBox carrier sub, allowing for flexible placement in the BHA or the drillstring. The tool captures an array of measurements, which includes multi-axis vibration, temperature, and rotation. Analysis of the high-frequency downhole data allows for improvements in drilling efficiency, and the BlackBox Eclipse II tool can help deliver custom solutions to drilling challenges by maximizing performance and reducing well delivery costs.



Features and benefits

Flexible deployment options—carrier sub sizes range from 4.75 to 9.5-in. OD

• Allows for various data collection techniques

Gyro RPM sensors

 Provides accurate data at all speeds and with all carrier sub sizes

Three-axis vibration measurement

• Captures detailed downhole behavior

Continuous high-frequency data

• Captures high-frequency data for analysis

Field-replaceable electronics

· Minimizes tool downtime

Delayed start feature

Conserves battery life

Sensor measurement and accuracy

Three-axis vibration (XYZ-	-axis)	200 to +200G (±1G)
RPM	1,200 to	1,200 RPM (±5 RPM)
Temperature40	to 302°F (-40 t	to 150°C) (±6°F / 3°C)

General specifications

Material	High-strength steel alloy
Rated pressure	20,000 psi
Rated temperature	302°F
Battery life120	hr, optional delayed start*
Memory storage	8 GB

Data rate

*Results may vary with configuration