

Blue Force® DrillView®

High-Resolution Drilling Dynamics

Experience unparalleled performance in Logging While Drilling (LWD) measurements, providing essential data on Bit-BHA forces, comprehensive 4-axis acceleration, and downhole pressures, setting the standard in the industry. Nabors BlueForce® DrillView® provides solution.

DrillView's high-performance design aggregates wideband four-axis acceleration, tool face, RPM, forces at bit (WOB, TOB, BOB), Annular and Internal pressures. Deploy at the BHA to collect and verify Bit-BHA drilling mechanic measurements and monitor conditions at numerous points in the drill string.

Service agnostic, the tool can be deployed on any BHA. Built-in field-replaceable batteries, deep memory storage, and speedy data readout enable long recording times and simplified service delivery. Explore the logs using Nabors DeepView® DLIS viewer, optimized to navigate extreme sized and detailed datasets.

Features

- Available in 6.75-inch nominal collar size
- Advanced drilling dynamics monitoring
- Wideband shock and vibration measurements
- Precisely synchronized and recorded to an ultra-deep memory
- Suitable for near bit or along-string measurement applications

Complimentary Companion Services

- **FracView®**
- LWD Borehole Imager and Caliper
- **SpectraView®**
- LWD Spectral and Azimuthal Gamma Ray Tool
- **DeepView®**
- To display and export high-resolution data from DLIS, LAS, and CSV formats
- **Interpretation Services**

Dataset Deliverables

- Weight on Bit (WOB)
- Torque on Bit (TOB)
- Bending on Bit (BOB) moment and azimuth
- Wideband acceleration (3-axis and torsional)
- Continuous inclination and azimuth
- Acceleration statistics and spectral distribution
- BHA Motion Trajectory, stick-slip, and whirl
- Temperature



For questions, comments, or details on Blue Force® DrillView®, please reach out to a Nabors Representative!

Blue Force® DrillView®

High-Resolution Drilling Dynamics

Industry leading LWD measurement performance when you need data on Bit-BHA forces, broadband 4-axis acceleration, and downhole Pressures.

Leverage best-in-class resolution, accuracy and sample rates with this proprietary tool robust enough for the most demanding applications. Drill View's high-performance design aggregates wideband four-axis acceleration, tool face, RPM, forces at bit (WOB, TOB, BOB) and pressures in borehole annulus and the mud flow channel.

Applications

- Single-point/multi-point assessment and optimization
- Platform for Mechanical Specific Energy (MSE), rock properties, geo-mechanic analytics
- Analysis of high frequency torsional vibrations (HFTO)
- Drilling dysfunction analysis and mitigation
- Evaluation of new tools or BHA configurations
- Optimization of BHA design and drilling methods
- Bit vibration and condition-based maintenance



Tool Parameters		675	475
Nominal Collar OD	in.(mm)	6.75 (171.5)	5.3 (134.6)
Maximum Collar OD	in.(mm)	7.05 (179.1)	5.3
Mud Flow Channel ID	in.(mm)	2.25 (57.2)	1.25
Tool Length	in.(mm)	73.20 (1860)	102.5 (2603.5)
Tool Weight	lbs	680	490
Connections		NC50 Box-Pin	XT39. box-pin
Make-up Torque	ft-lb	30,000	22,000
Maximum WOB	lbf	400,000	200,000
Maximum Torque	ft-lb	70,000	25,000
Overpull non-rotating, Operational	lbf	1,500,000	400,000
Max DLS rotating	deg/100 ft	10	15
Max DLS sliding	deg/100 ft	21	30
Max Mud Flow Rate (< 2% sand)	GPM	750	350
Max Operating Temperature Nominal	°F (°C)	302 (150)	302 (150)
High	°F (°C)	329 (165)	329 (165)
Extreme	°F (°C)	347 (175)	347 (175)
Max Operating Pressure, PSI, standard	psi	20,000	20,000
High	psi	25,000	-

Measurements and Performance		675	475
Temperature Measurement	Accuracy	±1.5°C rms	±1.5°C rms
	Sensor	±75,000 lbf	±50,000 lbf
	Precision Range	0.02°C rms	0.02°C rms
Radial and Axial Acceleration	Range	±500g, up to 5,000 Hz (-3dB BW)	±500g, up to 5,000 Hz (-3dB BW)
Torsional Acceleration	Range	87,000 rad/s ² , 5,000 Hz (-3dB BW)	87,000 rad/s ² , 5,000 Hz (-3dB BW)
RPM	Range	±5,000 RPM	±5,000 RPM
Weight-on-Bit	Sensor Range	±75,000 lbf	±50,000 lbf
	Accuracy	±4%	±4%
	Precision	7 lbf rms (1 sec averaging)	7 lbf rms (1 sec averaging)
Torque-on-Bit	Sensor Range	±30,000 lbf*ft	±15,000 lbf*ft
	Accuracy	±3%	±3%
	Precision	1 lbf*ft rms (1 sec averaging)	1 lbf*ft rms (1 sec averaging)
Bending Moment	Sensor Range	±60,000 lbf*ft	±15,000 lbf*ft
	Accuracy	±5%	±5%
	Precision	1 lbf*ft rms (1 sec averaging)	1 lbf*ft rms (1 sec averaging)
Annulus and Borehole Pressure	Sensor Range	0-25,000 PSI	0-20,000 PSI
	Accuracy	±0.04%	±0.04%
Data Recording	Acceleration	Up to 20,000 sps	Up to 20,000 sps
	Bit forces	Up to 200 sps	Up to 200 sps
	Pressures	Up to 200 sps	Up to 200 sps
	Memory	Up to 500 hours	Up to 500 hours
Power Source		Internal Batteries	