

# **NavQuest 300 & 600**

## **Doppler Velocity Logs**



- 300 Or 600 kHz Operating Frequency
- Highly Accurate And Robust
- Innovative Acoustic Doppler Technology
- Significantly Longer Range When Compared Against Similar Products
- Smallest Minimum Altitude In The Industry Allows Robust Navigation Very Close To the Bottom
- User Friendly And Cost Competitive
- Standard Depth 800 Meters
- Optional Depth 1500, 3000 or 6000 Meters
- Seamless Integration With TrackLink USBL Positioning Systems
- Seamless Integration With PinPoint LBL Positioning Systems
- Low Power Consumption DSP Technology

***NavQuest is a line of Doppler Velocity Logs manufactured by LinkQuest Inc., a company renown for its innovation, capability and product quality. The NavQuest Doppler Velocity Logs are ideal for precision navigation and positioning of underwater vehicles. With their capability for fast and accurate velocity output, significantly longer range and smaller minimum altitude comparing against similar products, the NavQuest 300 and 600 Doppler Velocity Logs are the excellent choices for underwater precision navigation applications.***

***LinkQuest Inc.***

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# NavQuest 300 & 600

## Doppler Velocity Log Specifications

### Velocity Specifications

Model	NavQuest 300	NavQuest 600
Frequency	300 kHz	600 kHz
Accuracy	0.4% $\pm$ 2 mm/s	0.2% $\pm$ 1 mm/s
Maximum Altitude	300 m	120 m
Minimum Altitude	0.6 m	0.3 m
Maximum Velocity	$\pm$ 20 knots	$\pm$ 20 knots
Standard Depth	800 m	800 m
Optional Depth	1500, 3000 or 6000 m	1500, 3000 or 6000 m
Maximum Ping Rate	3/second	5/second

### Power

Model	NavQuest 300	NavQuest 600
Maximum Transmit	200 watts	100 watts
Transit At Low Power Mode	55 watts	28 watts
Receiver	1.2 watts	1.2 watts
Input Voltage	24 $\pm$ 2V	24 $\pm$ 2V

### Weight and Dimension

Model	NavQuest 300	NavQuest 600
Transducer Assembly Diameter	23 cm	23 cm
Housing Diameter	20 cm	20 cm
Overall Length	20 cm	20 cm
Weight In Air	9.2 kg	9.0 kg
Weight In Water	4.2 kg	4.0 kg

(Smaller diameter transducer head is available for 600 kHz)

### Hardware

**Transducer:** 4 Beam Convex

**Transducer Beam Angle:** 22 °

**Housing:** Anodized Aluminum and Plastics

**Communication:** RS422 or RS232

### Optional Sensors

**Compass**

Accuracy:  $\pm$ 2 °

**Tilt(pitch and roll)**

$\pm$ 0.5 ° up to  $\pm$ 15 °

**Temperature**

Accuracy:  $\pm$ 0.4°C from -5°C to 45°C

### Options

Full-featured Current Profiling

OEM System Without Pressure Housing

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