

## DASnova™ Fiber Optic Distributed Acoustic Sensing System



The Sentek Instrument DASnova™ series of distributed acoustic sensors offers unprecedented sensitivity with uniform sensitivity distribution across the entire sensing range. The system consists of sensors placed within the fiber optic cable, an interrogator unit and software that provides data logging and exception monitoring.

DASnova™ is designed to generate sensitivity at least **one order of magnitude** higher than traditional Distributed Acoustic Sensor (DAS) systems. DASnova™ also offers excellent signal response fidelity enabled by its superior response linearity.

This breakthrough technology provides an ideal solution for applications where ultrahigh sensitivity of long span DAS is required.

The DASnova™ is the best in class solution for pipeline and asset monitoring, oil and gas downhole monitoring, perimeter security, smart grid monitoring and structural health monitoring for railways, bridges, tunnels, highways and dams.



**WE CHALLENGE THE IMPOSSIBLE**

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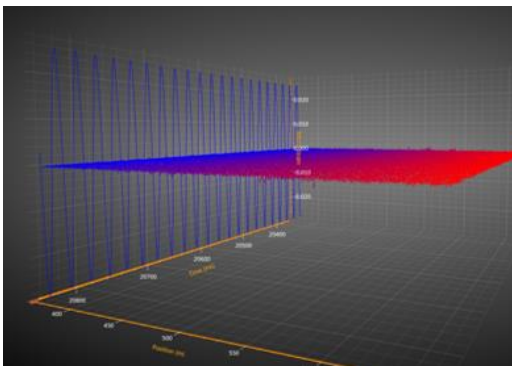
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## DASnova™ Fiber Optic Distributed Acoustic Sensing System

### Technical Specifications

Model	DASnova™ - 02	DASnova™ - 05
Sensitivity*	<0.5nε	<0.2nε
Maximum Active Sensing Range	1km	5km
Maximum Lead Fiber Length	1km	15km
Spatial Resolution	2m	5m
Max Data Update Rate	36.5kHz	8.0kHz
Computer Interface	Ethernet	
Instrument Dimensions and Weight	27cm x 45cm x 44cm (H x W x D), 17.3kg	
Power	110V/220V, 60Hz/50Hz	
Power Consumption	86W	

\* Sensitivity is defined by  $1\sigma$ .



DASnova™ Offers Best in Class Signal Response Fidelity Which is Enabled by its Superior Response Linearity

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