DIGITAL LOW-NOISE OPTICAL SEISMIC SENSOR

GREATER PRECISION. BETTER DECISIONS.

To capture the full performance of our optical interferometer-based seismometer we developed a complete digital sensor system. High levels of integration allow for a compact, low mass and highperformance sensor installation that can act as the heart of geophysical monitoring stations.

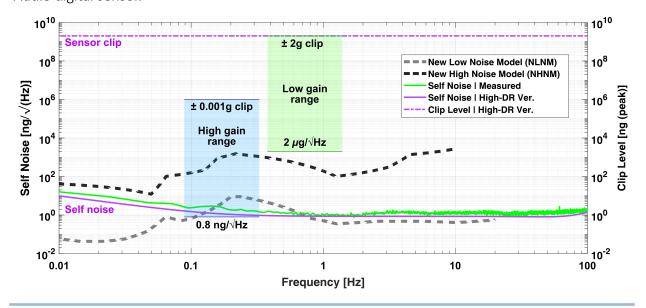
Performance Attributes:

- Integrated double digitization to capture 183-dB of seismic dynamic range
- Smart sensor system with optional integrated solar charging, state of health, sensor response and metadata integrated.
- Embedded Linux server allows easy system integration via Seedlink and an expandable architecture.
- Additional inputs available for expanding stations to include infrasound, inclinometers, meteorological and other instruments



- Direct burial: Easy to deploy, lightweight, rugged.
- Wide bandwidth and dynamic range.
- High clip levels and low distortion levels.
- Bridges weak- and strong-motion applications.
- Low power design.
- High shock tolerance.
- Very large tilt tolerance.
- Modular design for simple maintenance.

With the largest dynamic range available among seismic sensors, the Silicon Audio sensor eliminates the need for multiple sensors to maximize the signal capture in terms of seismic amplitude and bandwidth. For example, applications which once required a broad-band seismometer paired with a strong-motion accelerometer can be addressed with a single Silicon Audio digital sensor.



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Specifications

