

TRILLIUM 120 BOREHOLE SEISMOMETER

Nanometrics' industry-leading portfolio of Trillium seismometers includes a borehole variant for deep-earth deployments in cased boreholes. The latest generation of the Trillium 120 platform maintains all of the performance and capabilities of the previous generation while reducing power consumption by over 50%.

Reliability, Repeatability, Outstanding Performance

The Trillium Borehole Seismometer is a very broadband seismometer designed for down-hole deployments. The instrument is housed in a stainless steel enclosure incorporating a high-pressure, marine-grade connector making it suitable for cased borehole installations. An advanced leveling system allows the instrument to self-correct over a tilt range of ± 5 degrees (± 10 degrees optional).

Local, Regional & Teleseismic Studies

The Trillium Borehole is ideal for local, regional, and teleseismic studies having a response flat to velocity from 120 seconds to 150 Hz and exceptionally low self-noise. Operators will appreciate the low-power consumption, remote mass centering and robust no-mass lock design inherent in all Trillium seismometers.

A Highly Integrated Station Solution

When using the Trillium 120 BH with our popular Centaur digitizer, you'll have access to a digital leveling bubble through the Centaur GUI. The virtual leveling bubble makes for easy leveling down a dark hole, or once buried, gives you the ability to check levelness at any time.



 **Trillium**BH

Benefits

- Low- power consumption of 230 mW minimizes power source requirements at the site.
- Automatic leveling can be remotely initiated for corrections of up to ± 5 degrees, facilitating hole-lock installations in deep boreholes.
- The axis stack is mechanically leveled to ensure that the vertical axis does not couple horizontal noise.
- A robust, waterproof, stainless steel enclosure ensures the sensor is protected from harsh environments.
- Instrument recovery is aided by a fail-safe holelock release mechanism that prevents jamming to the casement during removal.
- Quiet down-hole deployments benefit from the exceptional low self-noise

