Trillium Cascadia

Integration Kit

The new Trillium Cascadia line demonstrates the clear performance, convenience and operational benefits of a single instrument combining both strong and weak motion sensors. In addition to the Trillium Cascadia Compact, which combines a Titan Posthole Class A accelerometer with a Trillium Compact Posthole broadband seismometer, we now offer an integration kit that allows you to combine the Titan Posthole with a Trillium 120 Posthole or Trillium 120 Borehole seismometer for a Cascadia that has an even lower noise floor and greater dynamic range.

What are the advantages of a combined instrument?

Easier and less costly installation:

> Only one hole to dig
> One instrument to level and align
> Large tilt range

Better performance:

> Always on-scale: local large magnitude as well as very weak signals recorded with the high combined dynamic range of the two sensors
> All six channels precisely aligned
> Less combined power required than similar systems

Ruggedness and reliability

> Completely immersible and corrosion resistant
> Protected from overcurrent, reversed polarity and electrical transients
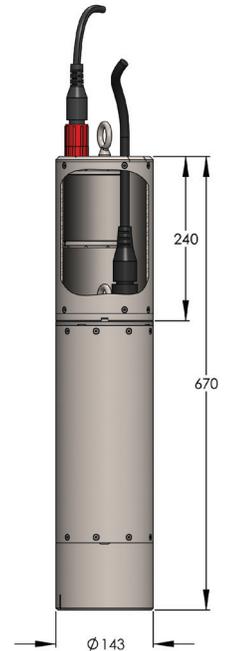
Combine the Cascadia with a Centaur digitizer and realize even more advantages:

> Access each sensor's web user interface to check status and configure accelerometer range modes at any time, even remotely
> Easy levelling with an electronic bubble level on the Centaur's web browser interface
> Advanced calibration features and smart sensor access/SOH
> Generate total system response information in RESP or dataless SEED formats
> Ability to check vertical orientation of sensor at any time remotely
> Ability to observe verticality of borehole casing during installation

Sensor integration is performed in the field and is non-permanent so you can use your Titan and Trillium sensors separately at a later date.

Integration kit for field assembly includes:

> Titan-Trillium Integration tube, top cap, and adaptor ring
> Required screws and other hardware
> Assembly instructions

Titan PH

Trillium PH

* Included in Integration kit

Nanometrics