KinAiry®

What is the difference between running a "compensation" and running an Interim Field Test with KinAiry?

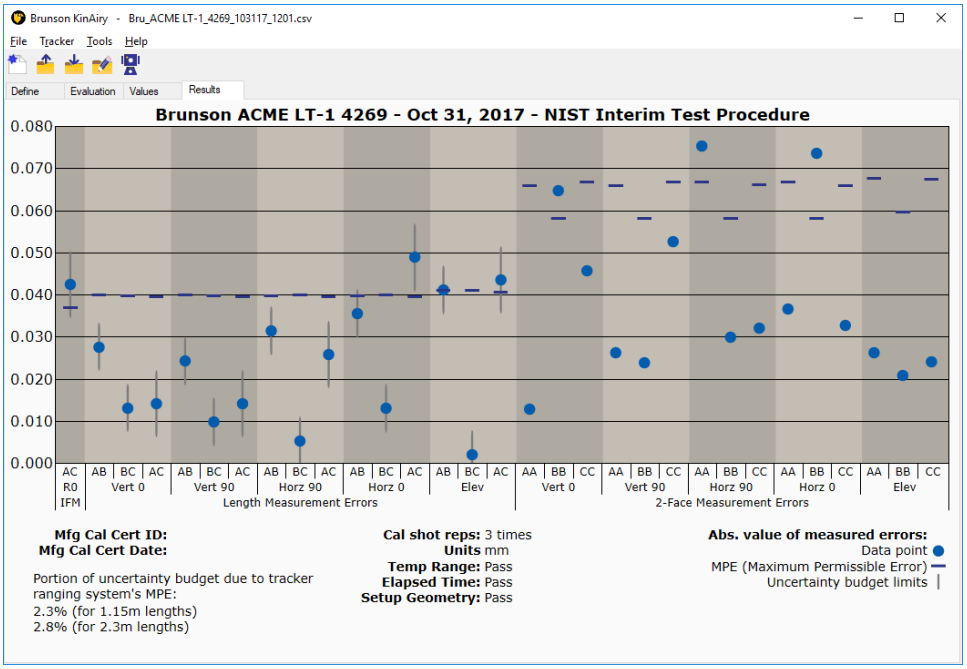
Compensation routines are how a laser tracker adjusts for errors that are seen. But they are not comprehensive, so error parameters that are not seen won't be adjusted. KinAiry is comprehensive by being a full-volumetric check on all potential geometric error sources and graphically shows where the laser tracker is running compared to the MPEs (maximum permissible errors) published by the manufacturer. In fact the graphical test results can be part of an overall Quality Program with traceability.

Why is KinAiry superior to shooting a scale bar and running a 2-Face Test?

Imagine the difference between listening to a car's engine to hear if it is running properly versus hooking the engine up to a diagnostic test that can tell the performance of each individual component with test results to show it!

Scale bars and 2-Face tests are a good start but often miss errors (not full-volumetric), and can result in bad data. Also, they do not provide written documentation of reports to see trends over time.

KinAiry is a comprehensive test exercising the full volume of the laser tracker, identifying each component with test results showing all 30 potential error sources and their performance versus the MPEs set by the manufacturer, as seen below.



What is the difference between a KinAiry report and the report we typically get back from the laser tracker manufacturer?

Depending on the manufacturer, they can and will provide test results. One of the manufacturers does share some individual performance results, comparing them with the acceptable tolerance to show that the tracker is functioning correctly. Another manufacturer may simply show how the test was done – and provide a simple, PASS designation.

The beauty of Interim Field Testing with KinAiry is that a report is provided each time the test is run showing the user how the tracker is performing against the MPEs or manufacturer's spec. A best practice would include running KinAiry after the laser tracker comes back from the manufacturer --generating a KinAiry report. This report will provide the user a baseline for future tests and reports that can be closely monitored in a trend analysis.

BRUNSON