

THE NDI POLARIS FAMILY OF SYSTEMS DELIVER REAL-TIME TRACKING FLEXIBILITY THROUGH THE MOST INNOVATIVE OPTICAL PRECISION MEASUREMENT TECHNOLOGIES ON THE MARKET TODAY. COMPACT AND EASY TO USE, THESE SYSTEMS COMBINE SIMULTANEOUS TRACKING OF BOTH WIRED AND WIRELESS TOOLS.

NDI Accuracy Assessment Kit for the Polaris family of products

NDI Polaris Systems provide accurate, real-time tracking to precisely report the position and movement of tools.

As a precise optical measurement system, your Position Sensor should be returned periodically to NDI for re-characterization to ensure continued optimal accuracy and results. The frequency of re-characterization depends on the application and the environment in which the Position Sensor is used.

Built upon more than 25 years of experience, NDI now offers an Accuracy Assessment Kit to give you the ability to assess the accuracy of any Polaris Position Sensor in the field. This NDI-developed solution can assess the accuracy of your Position Sensor in as little as 15 minutes. The Accuracy Assessment Kit will help you determine if the Position Sensor should be returned for re-characterization.

The NDI Polaris Accuracy Assessment Kit is for use with all Polaris Systems¹.

A combined hardware and software solution, the accuracy assessment procedure guides the user through the characterized measurement volume. Through this process, the user gains the requisite amount of data by measuring throughout the characterized measurement volume along the x, y and z axis.

HIGHLIGHTS

- the procedure followed by users in the Accuracy Assessment Kit is highly repeatable and reproducible
- it takes less than 15 minutes, including set up, and
- there is no fixturing required

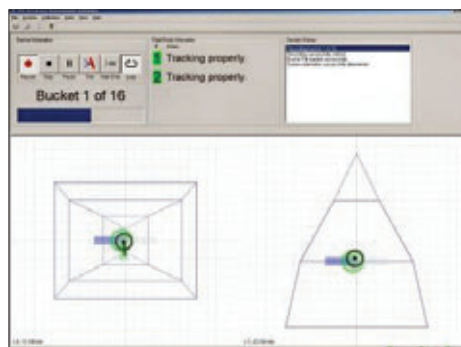


FIG 1: Aligning the Accuracy Assessment Tool with the targets in both views to collect data to assess the Position Sensor accuracy.

Bucket	Frames	Actual Frames	Percentage
1	100	100	100%
2	100	100	100%
3	100	100	100%
4	100	100	100%
5	100	100	100%
6	100	100	100%
7	100	100	100%
8	100	100	100%
9	100	100	100%
10	100	100	100%
11	100	100	100%
12	100	100	100%
13	100	100	100%
14	100	100	100%
15	100	100	100%
16	100	100	100%

FIG 2: The software reports an Accuracy Assessment Result for the Position Sensor that will assist you in determining if it should be returned to NDI for re-characterization.²

¹ Includes Polaris (Firmware Revision 017 or higher), Polaris Spectra and Polaris Vicra

² This must be determined by the user. Please refer to NDI's "Accuracy Assessment Kit Guidelines" for further information.

THE ACCURACY ASSESSMENT KIT INCLUDES:

HARDWARE

- An Accuracy Assessment Tool, comprising of two rigid bodies mounted on a bar, each with five discs.
- A transport case for the Accuracy Assessment Kit.
- Designed for portability, the kit and transport case weigh less than two kilograms.

SOFTWARE

- A user-friendly interface to step you through the characterized measurement volume of your Position Sensor, capturing requisite data at critical points.
- The Accuracy Assessment Software gives the user an Accuracy Assessment Result that can be used to relate the accuracy of the Position Sensor to the user's application.



TECHNICAL SUPPORT

- Included in each Accuracy Assessment Kit is detailed, illustrated user documentation.
- A key part of the development team for the Accuracy Assessment Kit, NDI Polaris Technical Support provides timely, knowledgeable assistance for any questions you might have when using the Kit.

THE COMPANY

Established 25 years ago, NDI is trusted by international leaders in medicine, industry and research for the accuracy and reliability of its measurement technology. NDI systems are used in applications from computer-assisted therapy to aeronautics; from quality inspection to human motion research. Today, the company is a world leader in advanced 3D measurement technology with over 10,000 installations in more than 30 countries around the world.

Contact your nearest NDI office today for more information.



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