



## Appendix B: BEAM Engineering Analysis Utility

\* Note: Confidential information is redacted.

SPARX HOCKEY

Log in

Customer Service

Device Data

Ring Change

Sales Team

Production Data

Beam Production

SPARX

Sparx Beam Data Analysis

Analyze and compare calibration data for one or more Sparx beams. Choose an xml file from the directory to begin.

6/15/2025 12:00:00 AM to 6/21/2025 12:00:00 AM

Pause

Search by serial number:

enter serial num

Search

Clear Page

File Directory

Zaber 117716

Beam Calibration Data

2003

2004

2025

1

2

3

4

5

6

10

16

25051243908

25051243930

25051243932

25051243934

25051243936

25051243938

File: 25051243956

Date: 6/18/2025 7:53:46 AM

Complete

Engineering Controls

2

Refresh every: 2 seconds

Pause if error found

Max Std Error

Render charts

Min Distance

Check min distance with Pixel Value

Clear Error

Finished cycling through files in date range.

Integration Time

Wait Time

XDirection

YDirection

Readout Pixels

Voltage Range

Gain

Pixels COG

Total Output

Bin

G2

G1

Peak Height Test

Peak Band Test

Peak Shape Test

Standard Error

Slope

Intercept

Min Distance

Pass

Pass

Disabled

Calibration Data

Zaber Stage (degrees)

Pixel Sensor Location vs Pixel Value

Pixel Sensor Location [pixels]

Failed Calibrations

File Name

Error Flag(s)

25051243936

Standard Error, Min Distance Between Points

25051243944

Min Distance Between Points

25051243950

Standard Error

25051243956

Min Distance Between Points

Report

Total calibrations analyzed

Total calibrations failed

Failed: Zaber Stage breakdown

Failed: Type breakdown

SPARX HOCKEY

Log in

Customer Service

Device Data

Ring Change

Sales Team

Production Data

Beam Production

SPARX

25051243956

Failed

22111307007

25051243952

25051243954

25051243955

25051243957

25051243959

25051243961

25051243963

25051243965

25051243967

25051243969

25051243970

25051243972

25051243974

25051243976

25051243978

25051243980

25051243982

Failed

2

10

25051243984

25051243986

25051243988

25051243990

25051243992

25051243994

25051243996

Failed

3

4

6

9

Zaber 118172

Zaber 118664

Beam Calibration Data

2003

2004

2025

1

2

3

4

Pixel Sensor Location vs Pixel Value

Pixel Sensor Location [pixels]

Failed Calibrations

File Name

Error Flag(s)

25051243936

Standard Error, Min Distance Between Points

25051243944

Min Distance Between Points

25051243950

Standard Error

25051243956

Min Distance Between Points

Report

Total calibrations analyzed

Total calibrations failed

Failed: Zaber Stage breakdown

Failed: Type breakdown