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CALIBALL™ II

CaliBall II™, a horizontal interferometer calibration device.



(<https://optiper.com/images/stories/virtuemart/product/caliball27.png>).

Price includes shipping.

The CaliBall II is used in horizontal interferometer set ups and is held in a Zygo type 4" bayonet mount that provides the adjustments to align the CaliBall II to the transmission sphere.

Details of the CaliBall™ II package:

- The CaliBall™ II comes with all the same components as CaliBall™ I but it is better suited for use with horizontal looking interferometers that are equipped with a Zygo style 4" bayonet mount with x-y-z adjustments
- CaliBall™ II does not need a separate x-y-z mount because the bayonet mount performs this function

The Random Ball Test* has been reviewed in papers by authors at both NIST and CSIRO who conclude they are not aware of a better method of transmission sphere calibration.

(See papers about the Random Ball Test under Technical Papers)

*The Random Ball Test is not reliable for calibrating transmission spheres slower than about f/7.












[Back to: CaliBall \(/en/products/caliball\)](#)

\$1,250.00

1

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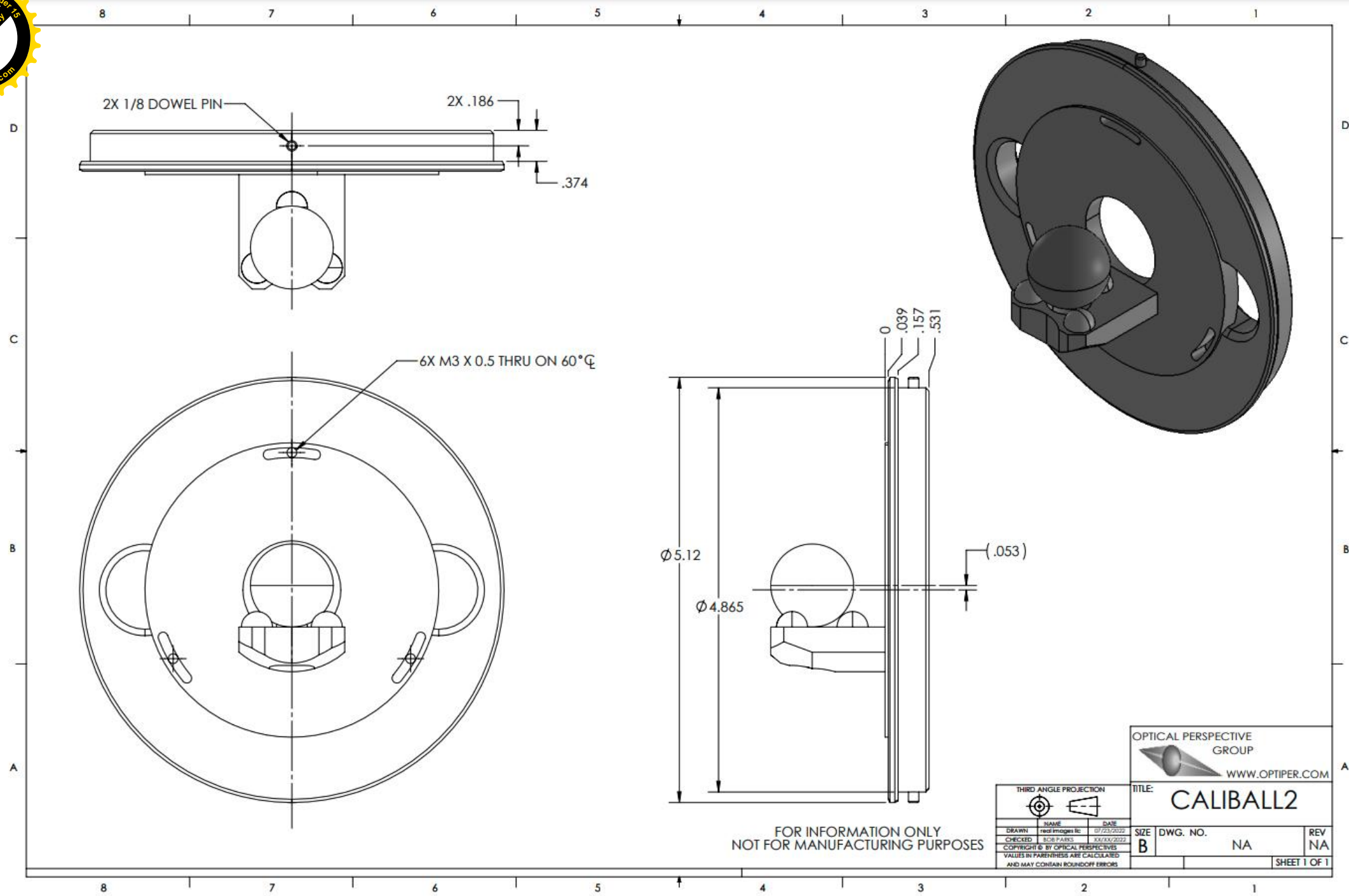
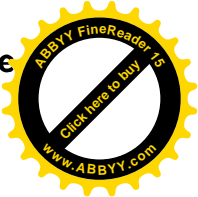
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APPLICATIONS

USING THE PSM AS AN AUTOCOLLIMATOR
(/EN/NEWS/ITEM/USING-THE-PSM-AS-AN-AUTOCOLLIMATOR)

The other day I got a call from a PSM user asking about calibration. What he was really asking about was the



setting of the zero, or origin, on the video screen.

READ MORE (/EN/NEWS/ITEM/USING-THE-PSM-

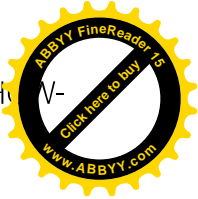
ADDING MECHANICAL DATUMS TO CGHS AND FRESNEL MIRRORS (/EN/NEWS/ITEM/ADDING-MECHANICAL-DATUMS-TO-CGHS-AND-FRESNEL-MIRRORS)

In general, computer generated holograms (CGHs) and plane Fresnel mirrors (and lenses), made by the same techniques as CGHs, have optical "datums" or foci that are "rigidly attached" to the CGH or Fresnel plane substrate and move in six degrees of freedom with the substrate.

READ MORE (/EN/NEWS/ITEM/ADDING-MECHANICAL-DATUMS-

TO-MICROSCOPE-FIND-BEST-FOCUS-AT-A-CENTER-OF-CURVATURE? (/EN/NEWS/ITEM/HOW-REPEATABLY-CAN-THE-POINT-SOURCE-MICROSCOPE-FIND-BEST-FOCUS-AT-A-CENTER-OF-CURVATURE)

Recently, a client asked how well can you focus if you really had to do better? I did not know but it was easy to do an experiment with our centering station that has a motorized stage and the ability to log data as the stage moves.



READ MORE

(/EN/NEWS/ITEM/H

REPEATABLY-

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CURVATURE)

CASE STUDIES & TESTIMONIALS

[Case Study from Melles Griot \(L\)](#) | [Testimonial from Dr. John Mitchell of Glyndwr Innovations Ltd. \(L\)](#) | [Testimonial from Suresh Sivanandam of Dunlap Institute for Astronomy and Astrophysics \(L\)](#)

| [Testimonial from Dr. Shaojie Chen of Dunlap Institute for Astronomy and Astrophysics \(L\)](#) | [Testimonial from Weslin Pullen of Hart Scientific Consulting International \(L\)](#)

Sometimes good news goes unnoticed for the longest time. We just stumbled on this unattributed, but complimentary note about the PSM.

See [_https://www.idex-hs.com/wp-content/uploads/2018/05/Enabling-Micron-Level-Mounting-Accuracy.pdf](https://www.idex-hs.com/wp-content/uploads/2018/05/Enabling-Micron-Level-Mounting-Accuracy.pdf)

<https://www.idex-hs.com/wp-content/uploads/2018/05/Enabling-Micron-Level-Mounting-Accuracy.pdf>

Notice the PSM in the top center of Fig. 9. Optical Perspectives Group would like to express "thank you, IDEX".

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