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CALIBRATION PACKAGE FOR PSM

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OPG offers a NIST traceable square wave grating with 4 lp/mm spacing for use in calibrating the lateral scale of the PSM and other optical instruments.

\$590.00

1

Add to Cart



<https://optiper.com/images/stories/virtuemart/product/picture-of-grating500x.png>












The package includes a 64 mm square glass substrate about 1 mm thick with a 25 mm square chrome square wave line pair pattern centered on the substrate, a Calibration Certificate from Applied Image showing traceability to NIST and a sheet with the actual Calibration data.

In the early days of the PSM, Optical Perspectives Group was able to specify the lateral scale of the video images produced by the PSM because we used a particular camera and a known set of objectives. As improvements have been made in pixel size in cameras and objectives from different manufacturers are used, the lateral scale is no longer simple and obvious. The square wave grating makes it possible to be sure the magnification is set correctly for crucial measurements.

Simply adjust the Calibration Factor in the PSM Align software to match the square wave pattern line pair spacing.



 Products ▾

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-  [PSM Upgrade Package \(/en/products/psm-upgrade-package\)](#)
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-  [Set of 10 Balls for use with PSM \(/en/products/set-of-10-balls-for-use-with-psm\)](#)
-  [Tip/tilt mount for the PSM \(/en/products/tip-tilt-mount-for-the-psm\)](#)
-  [CaliBall I \(/en/products/caliball-i\)](#)
-  [Axicon grating \(/en/products/axicon-grating\)](#)
-  [CaliBall II \(/en/products/caliball-ii\)](#)

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/ITE](#)

THE-

PSM-

ADDING AS-

MECHANICAL AN-

DATUMS TO CGHS

AND FRESNEL AUTOCOLLIMA

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/ITE](#)

MECHANICAL-

DATUMS-

HOW REPEATABLE

CAN THE POINT TO

SOURCE CGHS-

MICROSCOPE FIND AND-

BEST FOCUS AT A FRESNEL-

CENTER OF

CURVATURE? MIRRORS)

[\(/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/IT/ REPEATABLY- CAN- THE- POINT- SOURCE- MICROSCOPE- FIND- BEST- FOCUS- AT- CENTER- OF- CURVATURE)

CASE STUDIES & TESTIMONIALS

- [Case Study from Melles Griot \(/\)](#) | [Testimonial from Dr. John Mitchell of Glyndwr Innovations Ltd. \(/\)](#)
- [Testimonial from Suresh Sivanandam of Dunlap Institute for Astronomy and Astrophysics \(/\)](#)
- [Testimonial from Dr. Shaojie Chen of Dunlap Institute for Astronomy and Astrophysics \(/\)](#)
- [Testimonial from Weslin Pullen of Hart Scientific Consulting International \(/\)](#)

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> <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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