

News Release

Laser Optics
Instrumentation

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For Immediate Release

*From: Joel A. Kramer, Director of Sales
1-800-526-7560, ext. 17*

Transmission Flat For Interferometers Offers Improved Performance

Boynton Beach, FL – Tower Optical Corp. has just announced the availability of a Transmission Flat, TxF, that is used in interferometers to verify the surface flatness of plano elements such as mirrors, windows and prism surfaces.

The transmission flat, which should be of known flatness and shape, provides a reference wavefront which is compared to the returning, reflected light from the test object. The combined beam is evaluated for the variation between the wavefront of the transmission flat and the test object.

These differences are expressed as interference between the two beams.

The test object must be held so that the surface under test can be aligned in two axes of tilt. Manipulating the position of the test object adjust tilt to optimize the number of fringes.



Transmission Flats (TxF) are used when measuring the surface quality or transmitted wavefront of flat surfaces or optics. Each TxF is mounted in a cell and comes with a storage case.

The transmission flat has a surface with a reflectivity of 4% and another surface of 0.25%. This enables them to measure surfaces with 0.1% to 40% reflectivity. The 4 inch TxF mounts directly into the bayonet mounts of most interferometers.

Pricing and Availability

The Transmission Flat and its storage case is available from Tower Optical Corp. as P/N 0535-0005 for \$1,850, and is available from stock to 2 weeks. OEM configurations are also available. For more information visit www.TowerOptical.com or contact Tower at 1-800-526-7560 or fax 561-740-2518, or email sales@TowerOptical.com. The photograph is available in .JPG format, at <http://www.toweroptical.com/txflat.jpg>.

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