

QED ATTENUATION FILTER

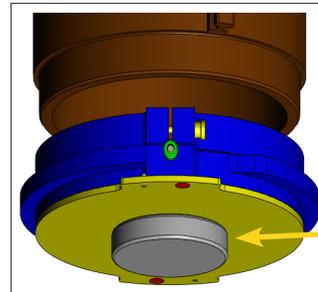
Increasing your metrology capabilities even further

QED introduces an easy-to-use attenuation filter designed for use with QED's metrology systems. By increasing the fringe contrast for high reflectivity parts, the QED Attenuation Filter improves your measurements, resulting in better data and better parts. Available in 4" and 6" options, the QED Attenuation Filter can also be used on other interferometers, in either vertical and horizontal orientation and it fits any Zygo transmission spheres or flats.

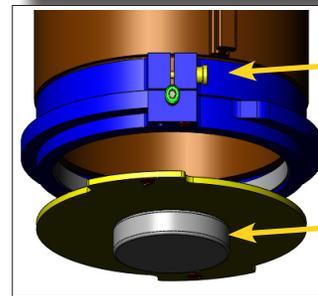
Design features make mounting easier and more reliable; operators can confidently mount the Attenuation Filter to their interferometer using a secure clamping system. Thanks to QED's design innovation, it's easier than ever to exchange or replace pellicles. The QED Attenuation Filter kit includes a pellicle holder, replaceable pellicle, magnetically mounted pellicle protection covers and a fixture to easily replace commercially purchased pellicles yourself, without damaging the pellicle. This reduces long term costs and downtime waiting for vendors to replace pellicles in custom holders. The QED Attenuation Filter comes in its own storage case to keep it protected when not in use.

Product Features

- Low profile design: slim assembly reduces the amount of cavity required, maximizing the interferometer measurement cavity.
- Removable magnetic covers: attach securely to protect the pellicle and are very easy to install or remove.
- Mounting ring included for easy installation of filter / pellicles.
- Engineered to be lightweight and easy to handle.
- Durable case with handle: keeps the Attenuation Filter protected when not in use.
- Ring style clamping system ensures full contact around transmission element: stable and secure in both vertical and horizontal orientations.
- Designed for easy lifting and carrying.
- Spring loaded mounting pins allow easy and quick access to the pellicle for simple, tool-free changeovers.



"Cover Knob" allows operator to position the QED Attenuation Filter using one hand with confidence.



Securely mounts to TE, requiring tightening of one thumbscrew.

Cover is easily removed by rotating CCW to release magnetic holding force.

Benefits

- Better data on high reflectivity parts, especially aspheres.
- Designed for use in a vertical or horizontal orientation; holds pellicle securely in place so there is less risk of damage to the pellicle.
- Low profile design minimizes space lost between transmission element and surface under test (particularly beneficial for convex parts).
- Interchangeable filters will reduce costs and lead times of replacement.

Performance Specifications

- $\leq \lambda/10$ transmitted wavefront quality. *
- Transmittance through pellicle is $25 \pm 3\%$ @ 632.8 nm

* Specifications based on pellicle supplied by QED Technologies. When used with QED's metrology systems, the reference wave error can be automatically removed during stitching.



Reference ASI(Q) document MKT1051 for additional information.



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