

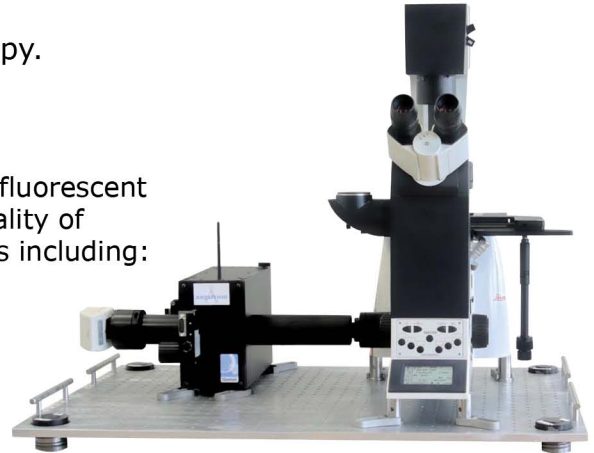
### Quorum Angstrom™

Optimized epi-illumination microscopy.

#### Clarity:

Quorum's Angstrom™ is an innovative fluorescent illumination path that improves the quality of acquired data for with many techniques including:

- Structured Illumination (OptiGrid)
- Deconvolution
- Single Molecule Tracking
- 3D Reconstruction



#### Resolution:

The incident light in a microscopy system profoundly affects the contrast and resolution of the sample yet most microscope manufacturers do little beyond ensuring that the excitation light meets basic Kohler illumination requirements. The Angstrom™ has been built using high quality apo-chromatic lenses to insure the projection of aberration-free excitation light. In conjunction with the OptiGrid the Angstrom™ system improves Z resolution over what can be achieved with Laser based confocal methods.

#### Infinity Space:

Contemporary microscope systems utilize an infinity space where optical elements, such as filters and magnifiers, can be inserted without requiring additional lenses. However, in contemporary microscopes this physical space is restricted and options for improvements to these elements are limited.

In the Angstrom, form follows function. We have designed the infinity space to utilize:

- Wide lenses: to minimize aberrations
- Thick dichroics: to eliminate lens aberrations introduced by distortions in the thin dichroics
- Fast filter wheels: 50 ms switch times (filter cubes usually have a 1s change time)
- Filter wheel cassette design: This design allows researchers to have multiple excitation and emission wheels - allowing "rapid" changes of the wheels depending on researchers requirements.

#### Flexibility

The Angstrom™ is designed to allow it to adapt to any microscope with a 100% video port, meaning that most microscopes can be easily upgraded.

This flexible design allows the system to be utilized for both fixed and live cell imaging on either inverted or upright stands.

The Angstrom™ is an ideal platform for FRAP and uncaging studies, allowing simultaneous targeted illumination and acquisition.

**The Angstrom™ Grid Structured Illumination System is a flexible alternative to laser based Confocal Microscopes.**