Application Scenario RSI.014: Demonstration of Abbe's Resolution Limit

Abstract
The resolution limit of an imaging system with an ideal lens is investigated. To this end we use an ideal grating object and consider its image for different periods. Abbe's resolution limit is illustrated. The effect of the wavelength on the resolution is also demonstrated.

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Keywords:	Imaging, Resolution, Diffraction Limited, Gratings
Requirements:	VirtualLab version 4.0.1 or higher – **Starter Toolbox**
Scenario Version:	1.1
Sample Files:	Corresponding files can be found here.

Technical Support

If you have any questions, remarks or problems concerning this application scenario, or in using VirtualLab in general, please do not hesitate to contact us by E-Mail support@lighttrans.com.

Please use the update service to install the current version of VirtualLab. Alternatively you can use the latest **Trial Version** of VirtualLab which is available at our download site. If you have been registered already for an older trial version, just contact us by E-Mail.

To ensure that this application scenario gives the same results as described, set the global settings to the default values. In VirtualLab this can be done in the Extras > Global Options dialog with the *Reset All* button.