Tutorial G.001a: Near Field and Efficiency Analysis of Sinusoidal Gratings

Abstract
VirtualLab provides a well guided way to create an optical setup for analyzing desired gratings.
This tutorial demonstrates the basic investigation of the near field and the diffraction efficiencies of the orders created by a sinusoidal grating.
This is shown for two gratings: On the one hand with a period distinctly above and on the other hand with a period in the range of the wavelength.

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Keywords:	grating, near field, diffraction efficiency analysis, sinusoidal, range of the wavelength
Requirements:	VirtualLab version 5.1 or higher – **Grating Toolbox**
Version:	3.1
Sample Files:	Corresponding files can be found here.
Related Scenarios:	Scenario_246.1 (Sinusoidal Grating with Coating)
Related Tutorials:	FS.003 (Introduction to the Parameter Run)

Technical Support

If you have any questions, remarks or problems concerning this tutorial, 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 tutorial 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.