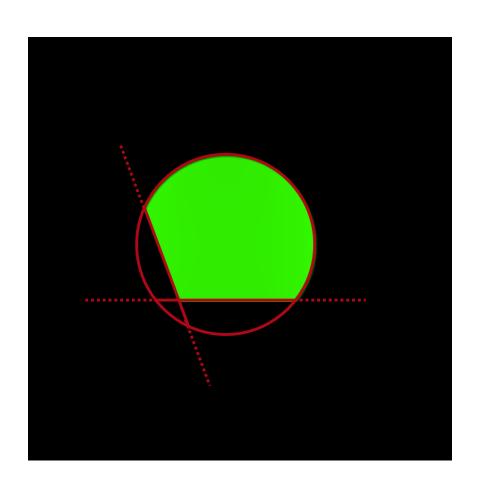


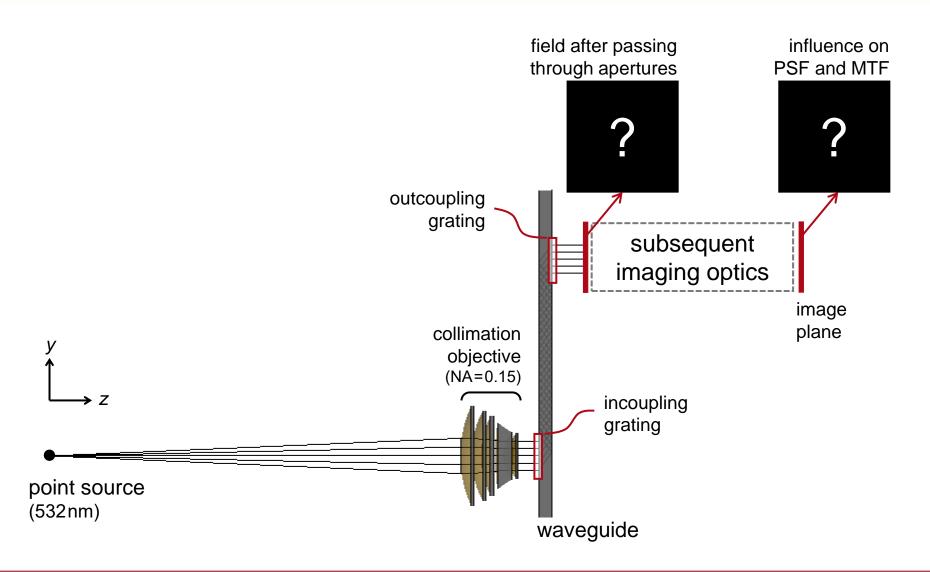
# **Analysis of Folded Imaging System with Multiple Apertures**

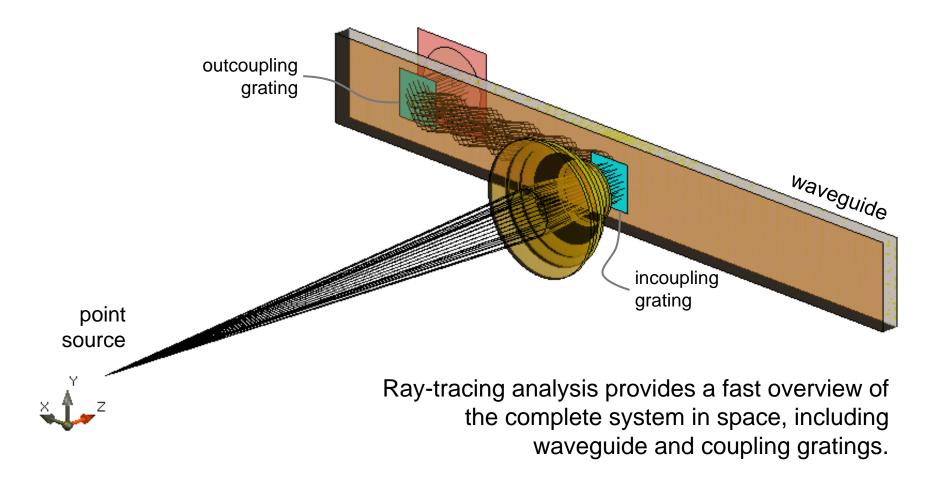
#### **Abstract**

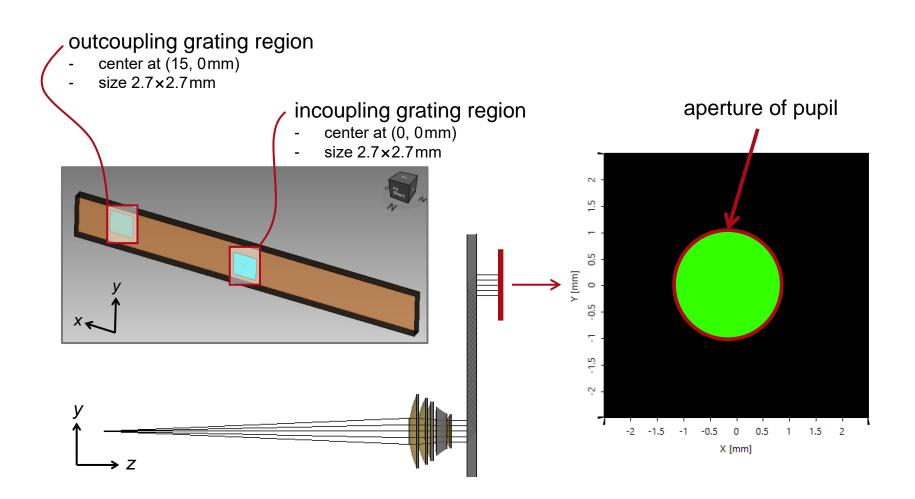


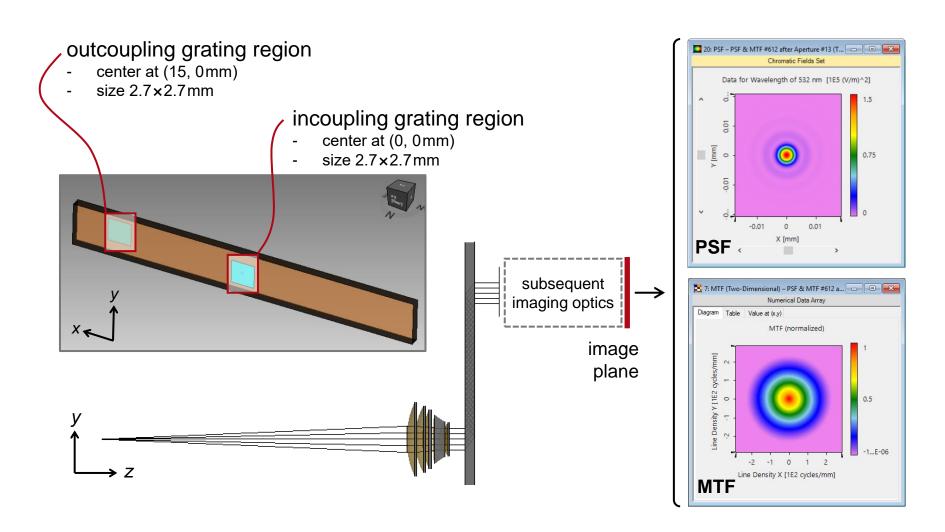
In a near-to-eye display system, the image generation unit, the collimation optics, the waveguide and the in- and outcoupling gratings, form a complex folded imaging system. Each part of the system may truncate the light, and therefore the multiple apertures effect must be taken into consideration for the evaluation of the imaging quality. In this example, it is shown that how differently configured in- and outcoupling gratings affect the field at the exit of the waveguide, and how it influence the PSF and MTF on image plane.

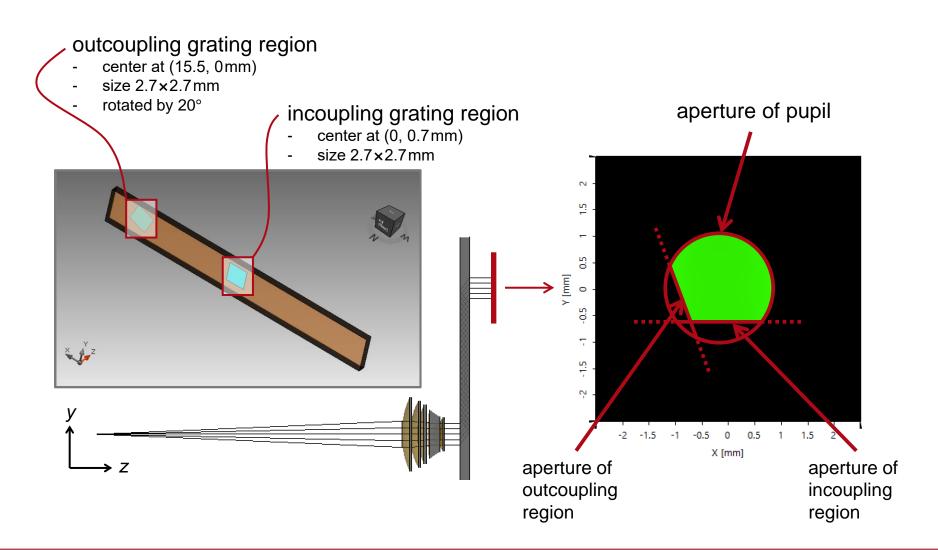
## **Modeling Task**

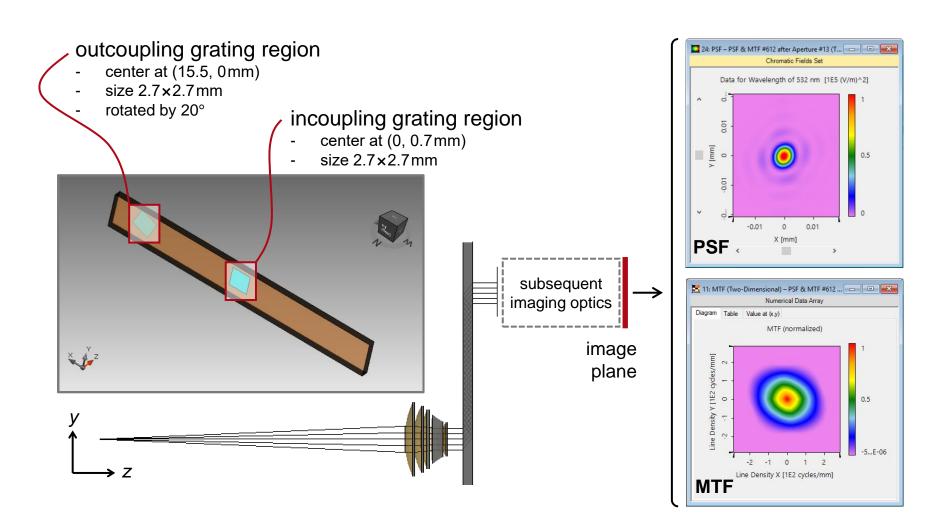


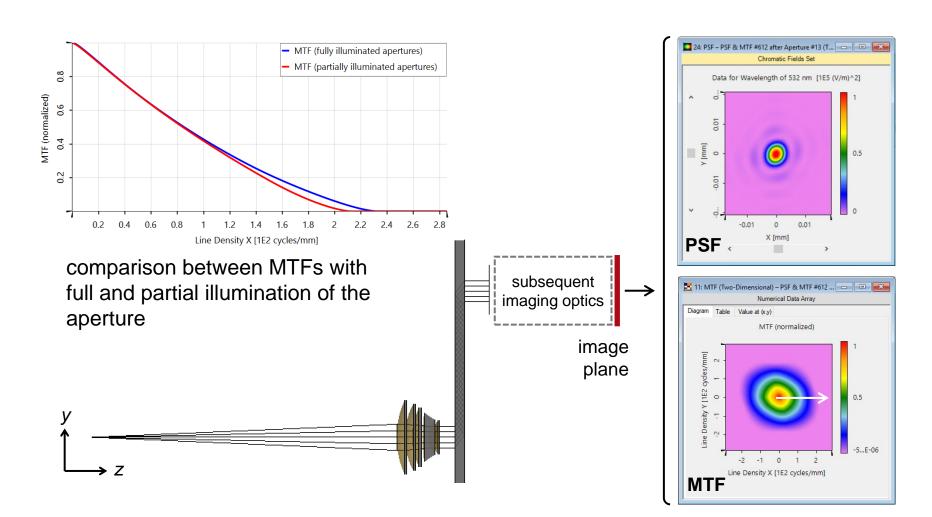












## **Document Information**

| title                           | Analysis of Folded Imaging System with Multiple Apertures |
|---------------------------------|---|
| version                         | 1.0   |
| VL version used for simulations | 7.3.0.41  |
| category                        | Application Use Case                                      |