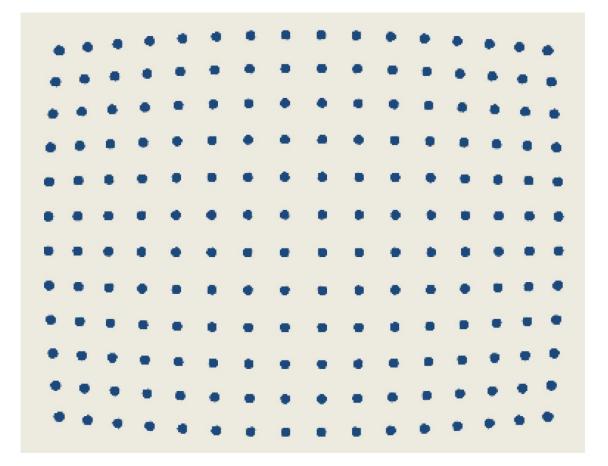


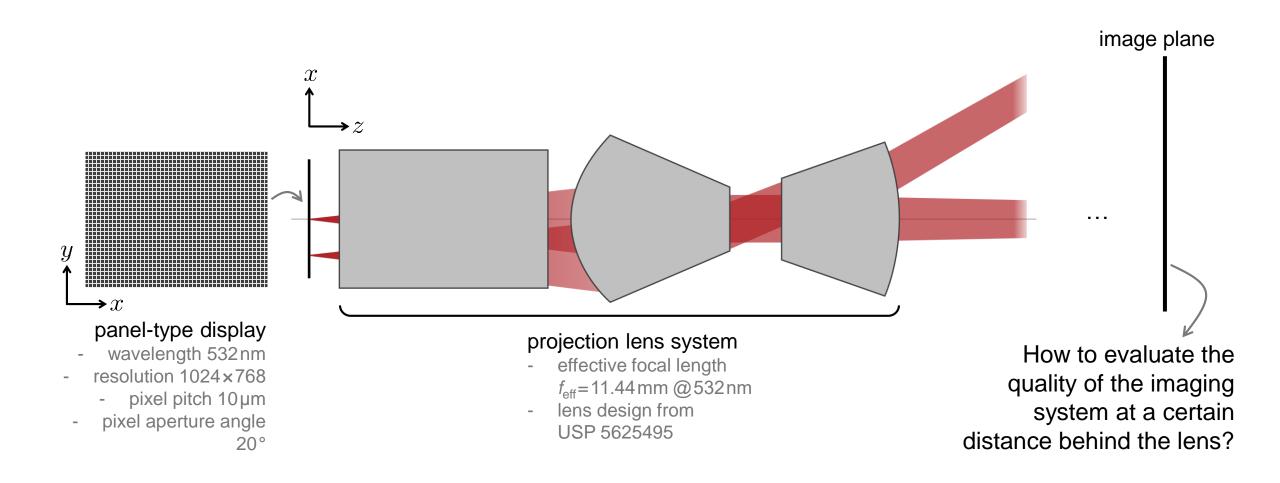
Modeling of An Image Projection System Based on Panel-Type Display

Abstract

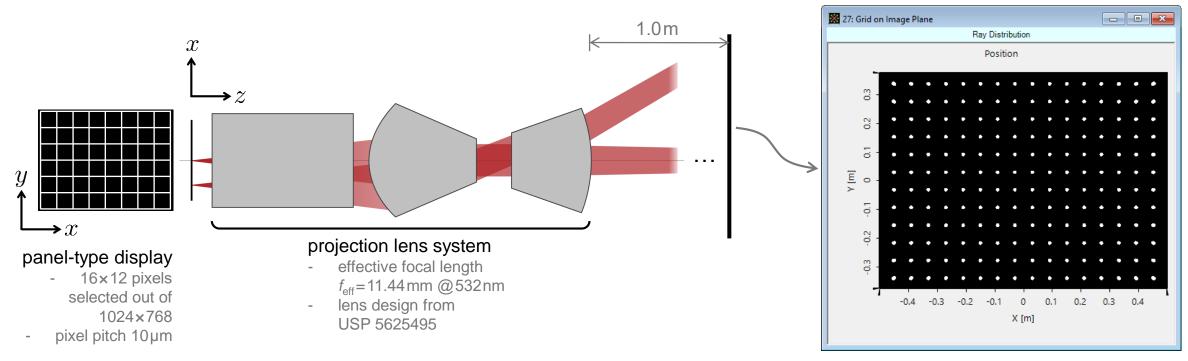


The modern display devices, e.g., liquid crystal display (LCD), are often used as the source for an imaging or projection system. Such display devices can be modeled conveniently by using the paneltype source in VirtualLab. As an example, an image projection lens is selected and analyzed with a panel-type source. The performance of the system is evaluated by both observing the spot grid in the image plane, and evaluating the angular/direction behavior.

Modeling Task

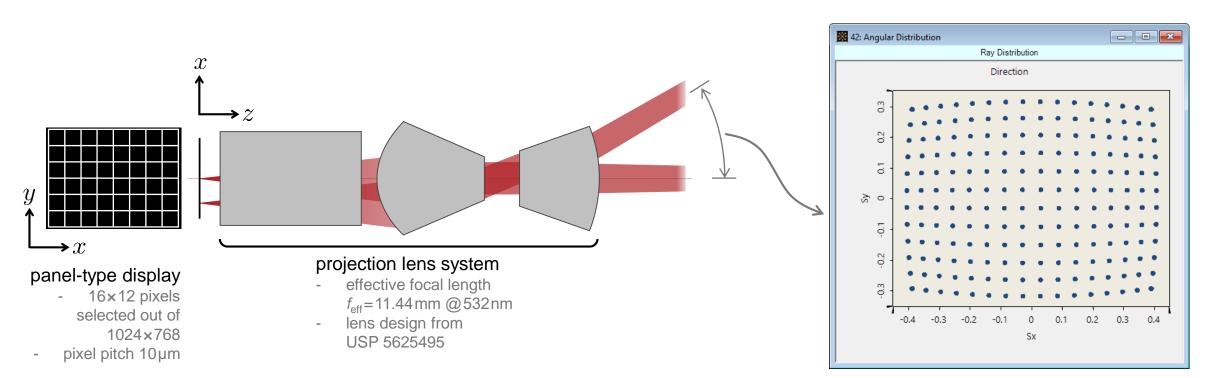


Spot Grid on Image Plane



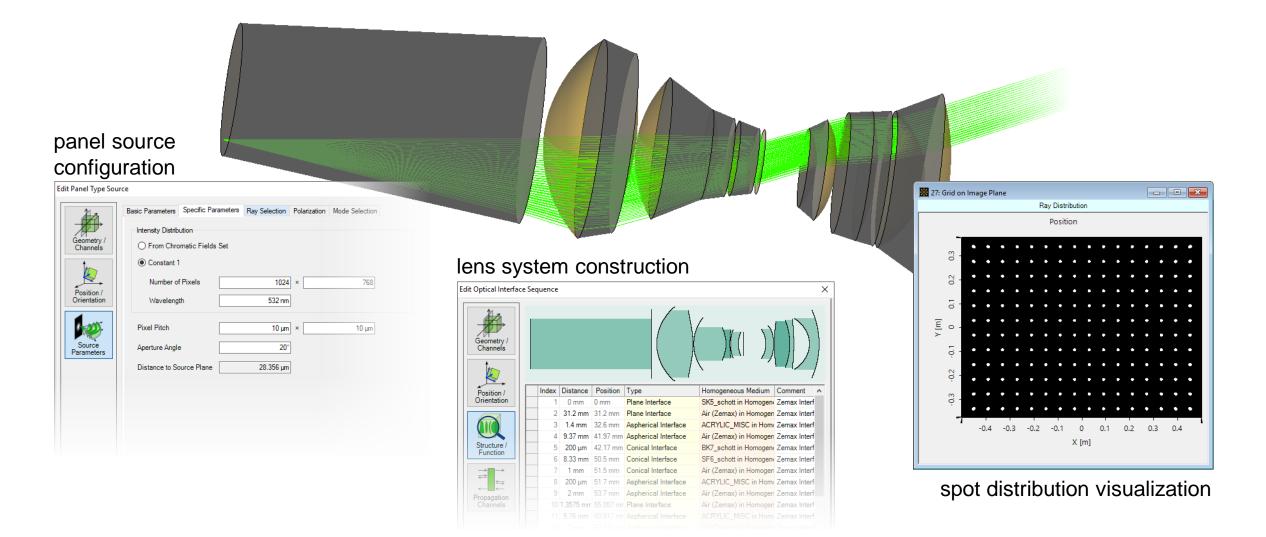
A well-designed projection lens system delivers an almost equidistant grid on image plane, with distortion under control.

Analysis in Angular Domain

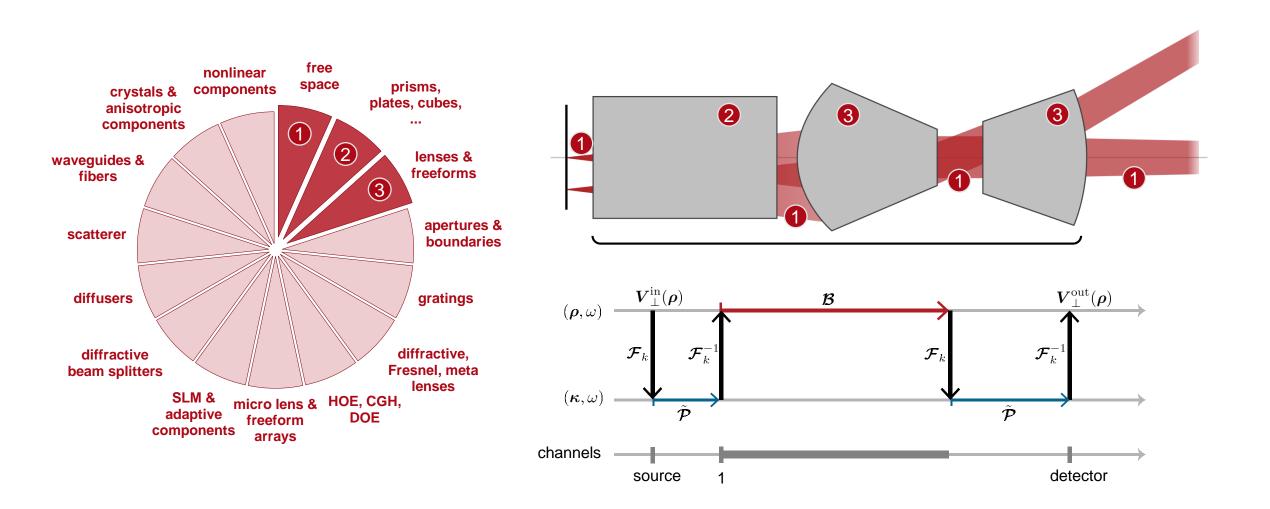


analysis in angular/direction domain

Peek in VirtualLab



VirtualLab Technologies



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