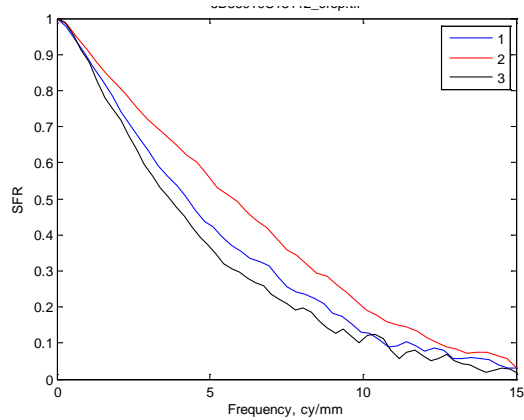
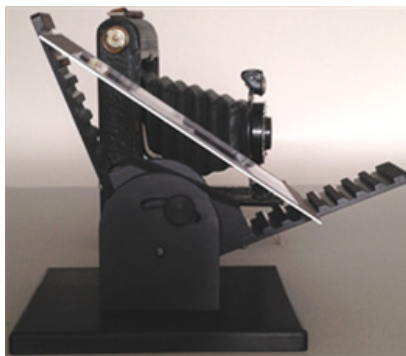


Evaluation of 3D-Projection Image Capture

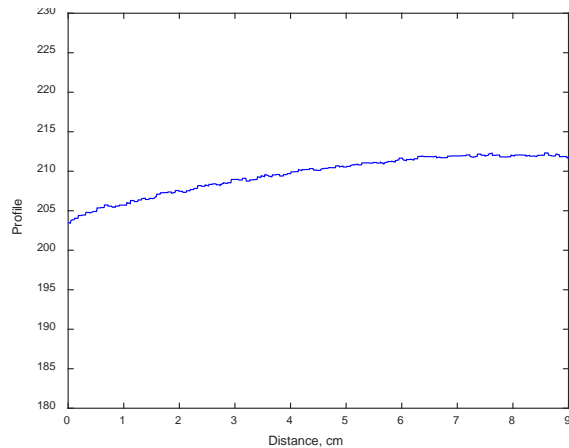
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It is now common practice to monitor imaging performance prior to, and during, image acquisition for digital collections. Important image characteristics include the influence of lighting, lens focus, and several aspects of general imaging practice. While these methods have been applied to near-flat objects and documents, less attention has been given to developing reliable corresponding methods for two-dimensional perspective images of three-dimensional objects, where optical depth-of-field can be critical. Focusing on the evaluation of image resolution over the macro depth/extent of the scene, we describe results of our effort to adapt standard methods to this new application. Cameras using simple, fixed lens and a tilted lens were evaluated.



Test chart with adjustable holder in use, and results of spatial frequency response (SFR) analysis at three depth positions



Test image for resolution and illumination evaluation, and. effective illumination profile