



Checklist for creating Calibration-Pictures

Focal length (about 4-8 different ones covering the complete range)	min. f-stop ...	f-stop 2 ...	f-stop 3 ...	max. f-stop
min. focal length				
focal length 2				
focal length 3				
focal length 4				
focal length 5				
focal length 6				
focal length 7				
focal length 8				
focal length 9				
focal length 10				

Procedure:

- 1 Adjust the camera to optimal picture settings, therefore: maximal resolution, highest image quality (jpeg image quality is sufficient).
- 2 Adjust the camera to the lowest focal length / zoom level.
- 3 Align the camera in such a way that a sufficient number of calibration points can be captured. Take care that the Calibration-Map detail should be kept rather smaller than too large, since the Calibration-Map edges shall not be captured if possible, and not all points need to be visible in the picture (attention: the viewfinder of some digital SLRs display a smaller cut than is actually taken). The absolute minimum quantity of needed Calibration-Points is approximately 15x12.
For cameras with a resolution lower than 1024x768 pixels do not photograph the complete Calibration-Map. In this case a size of approximately 24x18 points is recommended.
- 4 In order to get all vignetting correction parameters, take about 3-4 pictures with different f-stops for the adjusted focal length (the range of all possible f-stops should be covered as evenly as possible).
- 5 Repeat steps 3 and 4 several times, while increasing the focal length up to the maximum value in 4-8 steps.