

MTF (resolution)

In the MTF lab the first sample lens delivered good to very good resolution figures but suffered from a rather pronounced centering defect - this is actually not overly unusual for Nikon VR lenses if the local testing history serves as a guidance. In the meanwhile a 2nd sample has been tested that performed significantly better - these results are presented below.

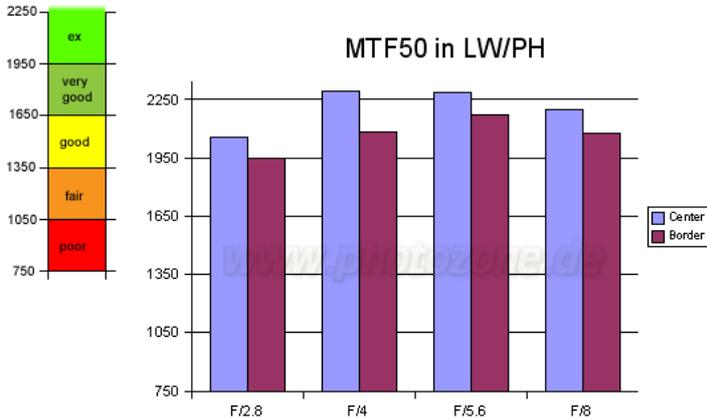
Generally the both the center and border resolution is excellent throughout the tested focal-length and aperture range. At 70mm the results are stellar and about as good as it gets on the Nikon D200. At 135mm and 200mm there's a marginal decrease in quality which shouldn't be really field relevant. The sweet spot of the lens is located around f/5.6.

Below is a simplified summary of the formal findings. The chart shows in line widths per picture height (LW/PH) which can be taken as a quantity for sharpness. The chart is limited to the visually relevant LW/PH range of [750, 2250]. If you want to know more about the MTF50 figures you may check out the corresponding [Imatest Explanations](#).

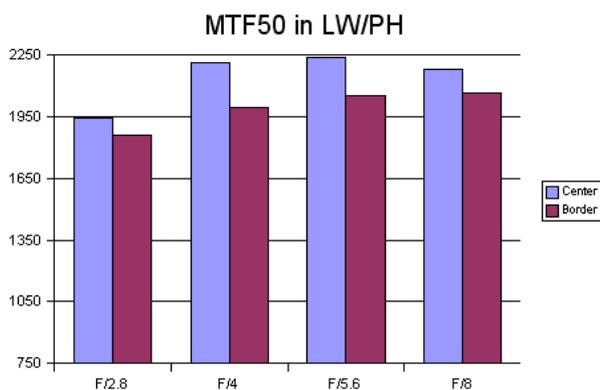
Rating Scale: Nikkor AF-S 70-200mm f/2.8 G IF-ED VR

Nikon (10mp)

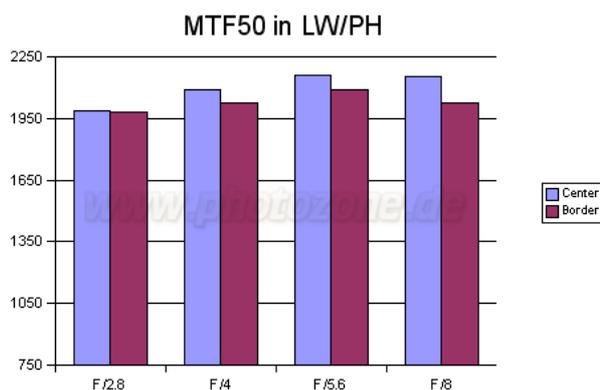
	70mm	F/2.8	F/4	F/5.6	F/8
max:		2057	2296	2288,5	2198,5
~2320 LW/PH		1949	2081	2171,5	2073,5



	135mm	F/2.8	F/4	F/5.6	F/8
Center		1945,5	2210,5	2241	2180
Border		1863	1996,5	2051	2064



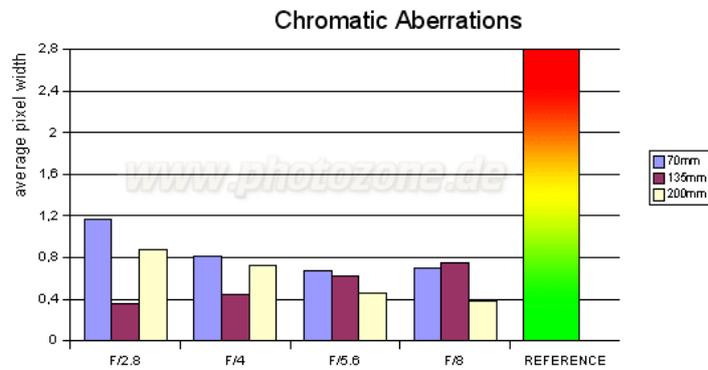
	200mm	F/2.8	F/4	F/5.6	F/8
Center		1989	2087,5	2161,5	2157
Border		1981	2023	2087	2025,5



Chromatic Aberrations (CAs)

Chromatic aberrations (color shadows at harsh contrast transitions) are generally well controlled with a local peak of 1.2px on the average at the image borders at 70mm f/2.8.

Border CA	F/2.8	F/4	F/5.6	F/8
70mm	1,17	0,82	0,67	0,69
135mm	0,36	0,45	0,62	0,76
200mm	0,87	0,73	0,46	0,38



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