



Reikan FoCal Fully Automatic Test Report

for D7100 (serial number 4341964) with 150-600mm f/5-6.3

Test run on: 26/01/2016 13:34:41 with FoCal 2.0.6.2416W Report created on: 26/01/2016 13:37:21 with FoCal 2.0.6W

Overview

Test Information

Property	Description
Data Creation FoCal Version	2.0.6.2416W
Data Analysis FoCal Version	2.0.6W
OS Version	Microsoft Windows NT 6.2.9200.0
Source Mode	Camera Mode
Image Capture Mode	JPEG
Analysis Method	Multi-ESH (RGB)
Camera Model	D7100
Firmware Version	V1.02
Serial Number	4341964
Shutter count (start)	15708
Test Colour Temp	5600 K
Lens	150-600mm f/5-6.3
Focal Length	600,0mm
Termination Reason	Failed to complete test
Test Aperture	f/6,3
Test ISO	100
Defocus Method	Defocus away from the camera
Distance to Target	75,0m
Starting AF Fine Tune	0
AF Consistency Constraint	6%
Shot Count	7
Calculated AF Fine Tune	No result could be calculated









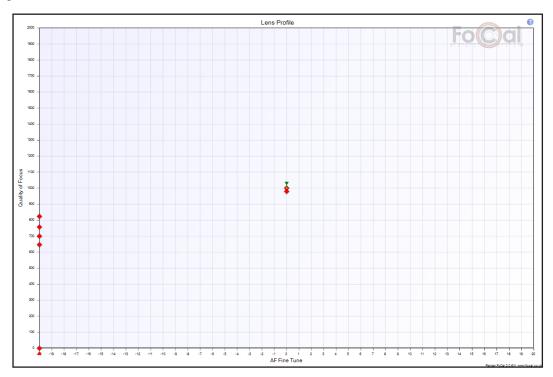
Test Details

Lens Profile Chart

The Lens Profile chart shows how the image quality changes as the AF Microadjustment changes. The orange line represents how the sharpness is expected to change through all values, so the highest point on this line corresponds to the best predicted AF Microadjustment value.

Each point on the chart represents the result of a single shot:

- Red marker: unoptimised sharpness
- Green marker: optimised sharpness
- Orange circle within marker this is the representative sharpness for this AFMA
- Orange curve the predicted sharpness across the AFMA range
- Green triangle highest value
- Red triangle lowest value



Before/After Comparison

The before/after images are not available.

RGB Analysis Results

No valid RGB analysis result.







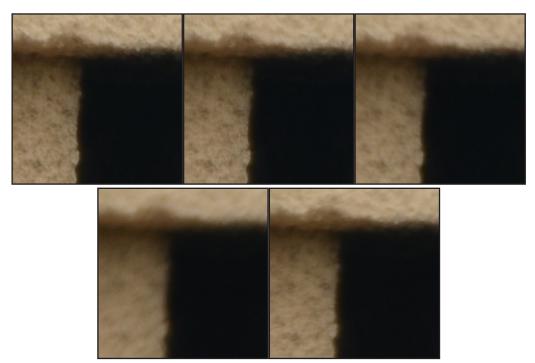


AF Fine Tune: -20

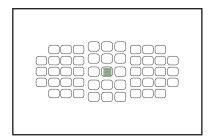
The following table shows information obtained for this test point:

	Shot 1	Shot 2	Shot 3	Shot 4	Shot 5
Aperture	f/6,3	f/6,3	f/6,3	f/6,3	f/6,3
Shutter Speed	1/80s	1/80s	1/80s	1/80s	1/80s
EV	11,6	11,6	11,6	11,6	11,6
Colour Temperature	Unknown	Unknown	Unknown	Unknown	Unknown
Camera Temperature	Unknown	Unknown	Unknown	Unknown	Unknown
Quality Measure	823,4	757,2	699,8	0,0	646,8
Optimised	No	No	No	No	No
Ignored	No	No	No	No	No
Spectral Power (R/G/B)	39/34/27	39/34/27	39/34/27	39/34/27	39/34/27
Red Quality	704,6	641,4	602,3	442,9	555,5
Green Quality	839,2	757,9	701,9	470,8	650,0
Blue Quality	987,9	945,0	849,6	564,2	805,3
HVR	99,4%	77,1%	50,7%	-2,7%	42,5%

The following image is a crop of the section of image analysed by FoCal:



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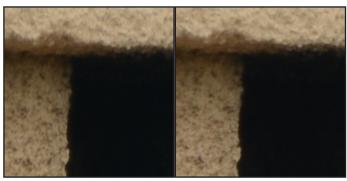


AF Fine Tune: 0

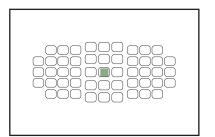
The following table shows information obtained for this test point:

	Shot 1	Shot 2
Aperture	f/6,3	f/6,3
Shutter Speed	1/80s	1/80s
EV	11,6	11,6
Colour Temperature	Unknown	Unknown
Camera Temperature	Unknown	Unknown
Quality Measure	1000,2	979,5
Optimised	No	No
Ignored	No	No
Spectral Power (R/G/B)	39/34/27	39/34/27
Red Quality	937,5	907,9
Green Quality	1083,1	1064,5
Blue Quality	1138,1	1102,3
HVR	121,4%	96,4%

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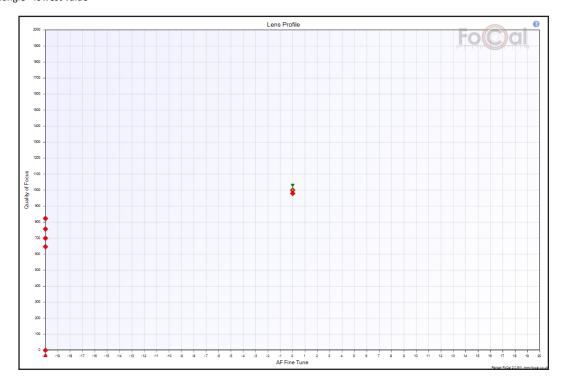


Lens Profile

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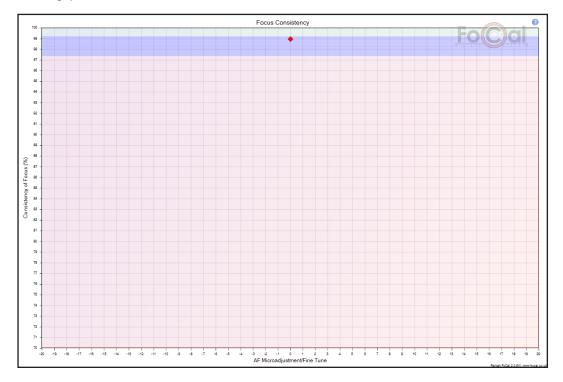
Focus Consistency

The Focus Consistency chart shows the focus variability at each tested point where available. This is calculated from the spread in sharpness values from shots at a single AF Microadjustment value.

A value of 100% indicated perfect repeatability. In normal use, a values above 97% indicate acceptable autofocus repeatability, and above 99% indicate very good repeatability. Note that the consistency of focus measurement is less relevant far from the best AF Microadjustment value.

If FoCal Comparison Data is available for this camera and lens a red/blue/green overlay will be added to indicate how your camera and lens performance compares with other users as follows:

- Red: indicates below-average performance,
- Blue: typical performance experienced by other users
- Green: above average performance.









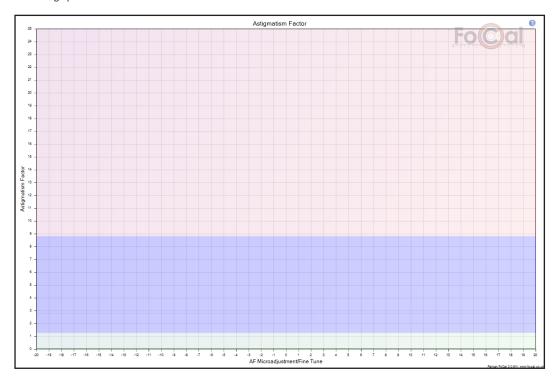


Astigmatism Factor

The Astigmatism Factor chart shows the image quality ratio between the horizontal and vertical analysis directions. If this value varies by more than 10% across the range, or the average value is more than +/- 5% then your lens may be suffering from some decentering or lens element alignment issues.

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Result Convergence

The Result Convergence chart indicates how FoCal determined the best AF Microadjustment value as more points were added to the data. There is no result for the first few points, then the result should stabilise as more points are added towards the end of the test (the right side of the chart).

The size of the green area gives an indication of the confidence in the result at that point. A large green area spreading across many AF Microadjustment values indicates poor data that will not give an acceptable final result.

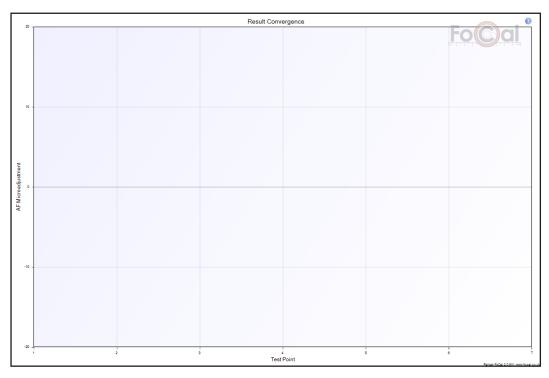










Image Motion

As changes are made inside a lens (e.g. focussing or aperture change), the image projected onto the sensor can move slightly. The Image Motion chart shows the absolute number of pixels moved for each image compared to the first image captured.

Typically, the Image Motion should be significantly less than 10 pixels, and a repeatable higher value could indicate misaligned lens optics, camera movement or vibration during the test or other environmental or lens issues.

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	No Chart To Draw	



