Reikan Technology

FoCal
Focus Calibration and Analysis Software

Image Stabilisation Test Report

for Canon EOS R5 with Canon RF 24-105mm F4L IS USM

Test run on: 10/11/2020 13:46:12 with FoCal 2020.2 IDR1

Report created on: 04/12/2020 15:47:13 with FoCal 2021 Beta

Overview

Test Information

Property	Description
Test ID	59-315-49572
Data Creation Software Version	2020.2 IDR1 (3.1.0.8670W)
Data Analysis Software Version	2021 Beta (3.1.0.8930W)
OS Version	Windows 10 - May 2019 Update (10.0.18362)
Source Mode	Camera Mode
Image Capture Mode	JPEG
Analysis Method	Multi-ESH (RGB)
Camera Model	Canon EOS R5
Firmware Version	1.1.1
Serial Number	Not Included
Test Colour Temp	5200K
Lens	Canon RF 24-105mm F4L IS USM
Lens Serial Numnber	7103000139
Focal Length	105mm
Test Outcome	Success
Shutter Speed	1/200s to 1s
Aperture	f/8 to f/16
ISO	100 to 800
Distance to Target	2.2m
Stops Improvement	3.9

Test Details

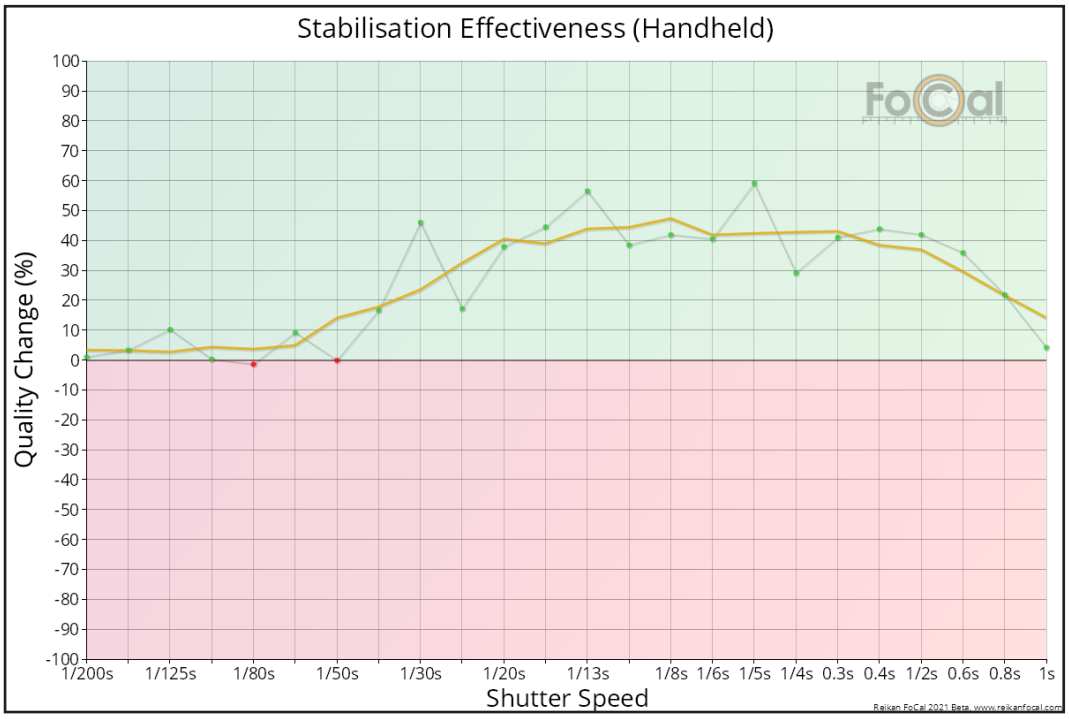
Stabilisation Effectiveness (Handheld)

Stabilisation Effectiveness shows the change in quality at each point when stabilisation is activated. As the line rises into the green area, this shows an improvement in quality with stabilisation enabled. If the line drops into the red area, this indicates that the stabilisation system is degrading the image.

For handheld results at slower shutter speeds, you should notice a significant quality improvement when stabilisation is enabled as it compensates for the movement.

At faster shutter speeds (typically less than around 1/200s), there should be very little difference between the quality value when stabilisation is enabled.

For detailed information about how to interpret this chart, please see: http://help.reikanfocal.com/help2/1301.html



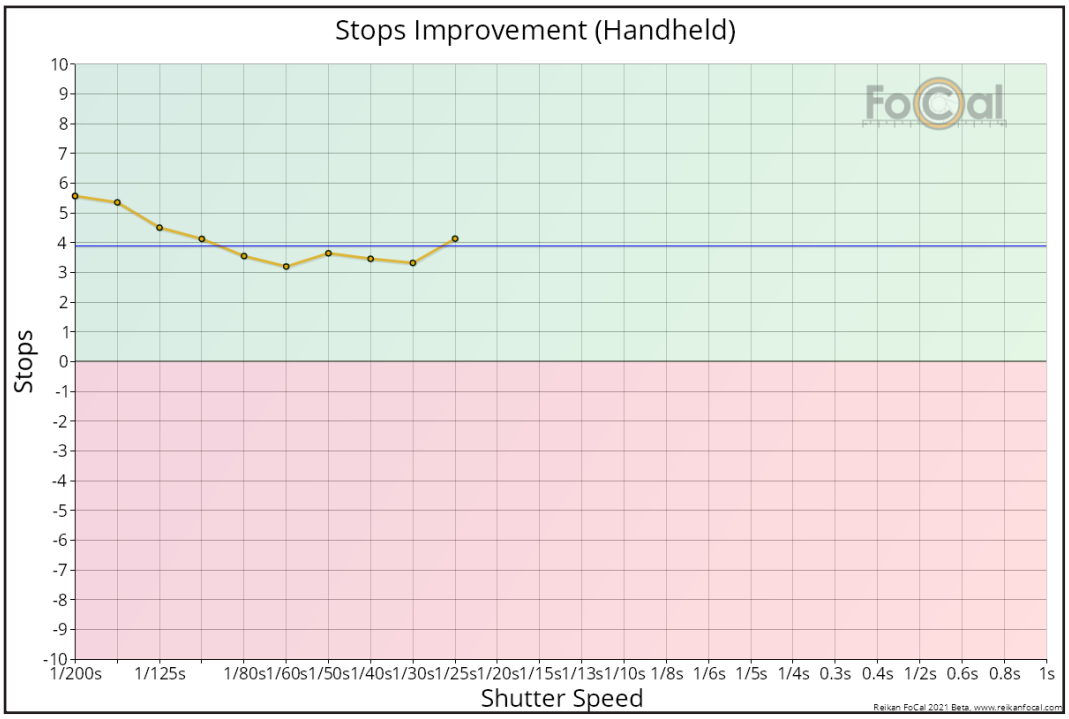
Stops Improvement (Handheld)

This chart shows the number of stops improvement when the stabilisation is enabled compared to when it is disabled.

For each stabilisation-disabled quality level, this calculation tries to find the shutter speed of the same stabilisation-enabled quality and determine the number of stops between them.

This calculation is not available at every point, and is generally only populated and valid when the test captures shutter speeds where movement cannot be fully corrected by the stabilisation system (e.g. slower than around 1/4 second)

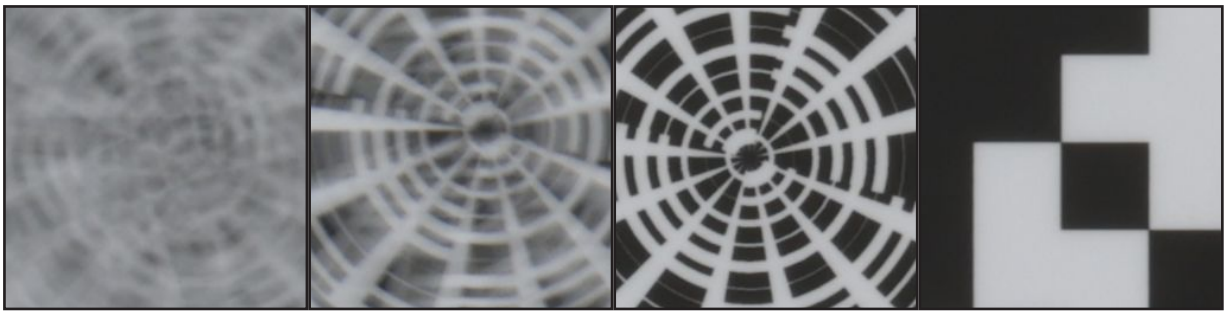
For detailed information about how to interpret this chart, please see: http://help.reikanfocal.com/help2/1307.html



Shutter Speed: 1s

	Shot 1	Shot 2	Shot 3	Shot 4
Hold Type	Handheld	Handheld	Tripod	Tripod
Stabilisation	Off	On	Off	On
Aperture	f/16	f/16	f/16	f/16
Shutter Speed	1s	1s	1s	1s
EV	8.0 EV	8.0 EV	8.0 EV	8.0 EV
Colour Temperature	5200K	5200K	5200K	5200K
Camera Temperature	40°C	41°C	40°C	40°C
Quality Measure	927.5	1003.0	1685.0	1684.2
Optimised	Yes	Yes	Yes	Yes
Ignored	No	No	No	No
Spectral Power (R/G/B)	32.9% 33.2% 33.9%	32.9% 33.2% 33.9%	33.3% 33.3% 33.5%	33.3% 33.3% 33.4%
Red Quality	939.1	987.9	1688.4	1689.9
Green Quality	923.9	1021.6	1698.4	1702.9
Blue Quality	903.0	1002.8	1666.6	1669.1
Astigmatism Factor	29.5%	-31.0%	-3.7%	-3.3%
Red-Blue Ratio	3.8%	-1.5%	1.3%	1.2%
Red:Green	101.6%	96.7%	99.4%	99.2%
Blue:Green	97.7%	98.2%	98.1%	98.0%

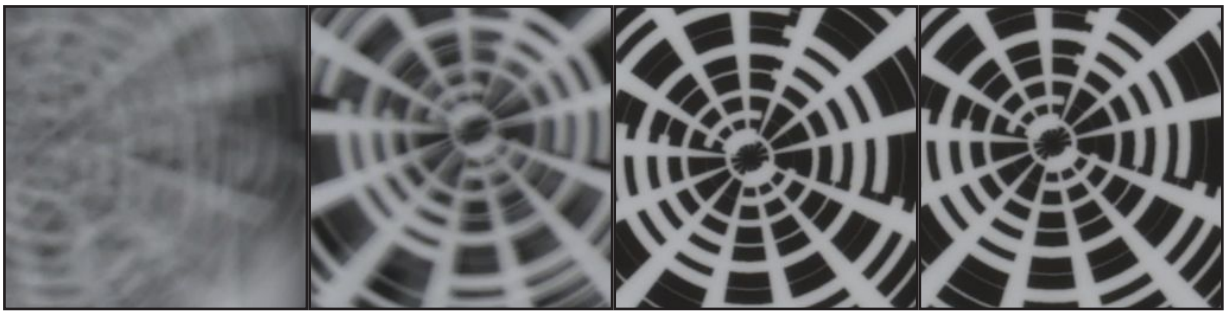
The are crops of the section of image analysed by FoCal:



Shutter Speed: 0.8s

	Shot 1	Shot 2	Shot 3	Shot 4
Hold Type	Handheld	Handheld	Tripod	Tripod
Stabilisation	Off	On	Off	On
Aperture	f/16	f/16	f/16	f/16
Shutter Speed	0.8s	0.8s	0.8s	0.8s
EV	8.3 EV	8.3 EV	8.3 EV	8.3 EV
Colour Temperature	5200K	5200K	5200K	5200K
Camera Temperature	40°C	41°C	40°C	40°C
Quality Measure	463.2	857.4	1694.7	1700.3
Optimised	No	Yes	Yes	Yes
Ignored	No	No	No	No
Spectral Power (R/G/B)	32.8% 33.2% 34.1%	32.9% 33.2% 33.9%	33.3% 33.2% 33.5%	33.3% 33.2% 33.5%
Red Quality	468.7	860.4	1700.9	1710.1
Green Quality	480.9	858.4	1713.9	1717.3
Blue Quality	468.8	852.0	1674.7	1677.1
Astigmatism Factor	-28.8%	-24.7%	-3.7%	-2.8%
Red-Blue Ratio	0.0%	1.0%	1.5%	1.9%
Red:Green	97.5%	100.2%	99.2%	99.6%
Blue:Green	97.5%	99.3%	97.7%	97.7%

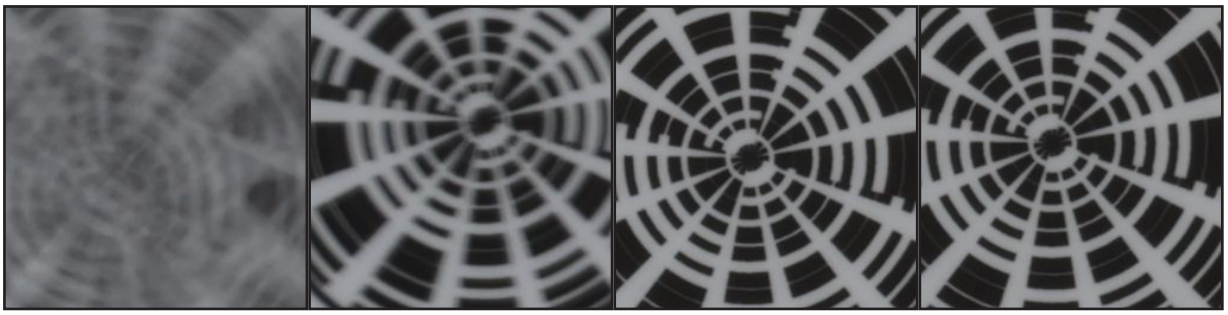
The are crops of the section of image analysed by FoCal:



Shutter Speed: 0.6s

	Shot 1	Shot 2	Shot 3	Shot 4
Hold Type	Handheld	Handheld	Tripod	Tripod
Stabilisation	Off	On	Off	On
Aperture	f/16	f/16	f/16	f/16
Shutter Speed	0.6s	0.6s	0.6s	0.6s
EV	8.7 EV	8.7 EV	8.7 EV	8.7 EV
Colour Temperature	5200K	5200K	5200K	5200K
Camera Temperature	40°C	41°C	40°C	40°C
Quality Measure	523.2	1170.5	1697.3	1694.0
Optimised	No	Yes	Yes	Yes
Ignored	No	No	No	No
Spectral Power (R/G/B)	32.8% 33.1% 34.1%	32.9% 33.1% 34.0%	33.2% 33.2% 33.6%	33.2% 33.2% 33.6%
Red Quality	524.4	1177.2	1706.3	1703.7
Green Quality	519.6	1184.9	1716.1	1716.3
Blue Quality	524.8	1153.4	1672.5	1666.2
Astigmatism Factor	-2.2%	-40.4%	-3.0%	-3.7%
Red-Blue Ratio	-0.1%	2.0%	2.0%	2.2%
Red:Green	100.9%	99.3%	99.4%	99.3%
Blue:Green	101.0%	97.3%	97.5%	97.1%

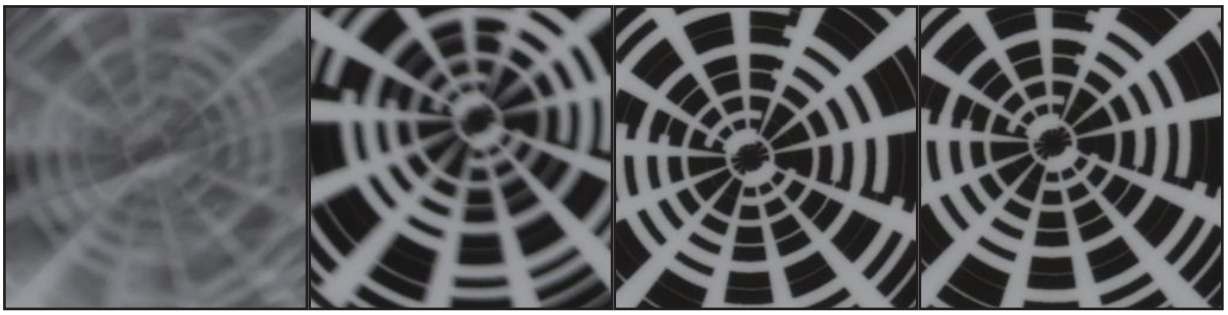
The are crops of the section of image analysed by FoCal:



Shutter Speed: 1/2s

	Shot 1	Shot 2	Shot 3	Shot 4
Hold Type	Handheld	Handheld	Tripod	Tripod
Stabilisation	Off	On	Off	On
Aperture	f/14	f/14	f/14	f/14
Shutter Speed	1/2s	1/2s	1/2s	1/2s
EV	8.6 EV	8.6 EV	8.6 EV	8.6 EV
Colour Temperature	5200K	5200K	5200K	5200K
Camera Temperature	40°C	41°C	40°C	40°C
Quality Measure	467.4	1224.1	1734.2	1740.7
Optimised	Yes	Yes	Yes	Yes
Ignored	No	No	No	No
Spectral Power (R/G/B)	32.7% 33.1% 34.2%	32.9% 33.1% 33.9%	33.2% 33.2% 33.6%	33.2% 33.2% 33.6%
Red Quality	469.6	1226.5	1746.0	1748.1
Green Quality	469.5	1234.5	1754.7	1761.6
Blue Quality	466.7	1208.5	1706.4	1709.3
Astigmatism Factor	16.0%	-14.9%	-3.6%	-4.4%
Red-Blue Ratio	0.6%	1.5%	2.3%	2.2%
Red:Green	100.0%	99.4%	99.5%	99.2%
Blue:Green	99.4%	97.9%	97.2%	97.0%

The are crops of the section of image analysed by FoCal:



Shutter Speed: 0.4s

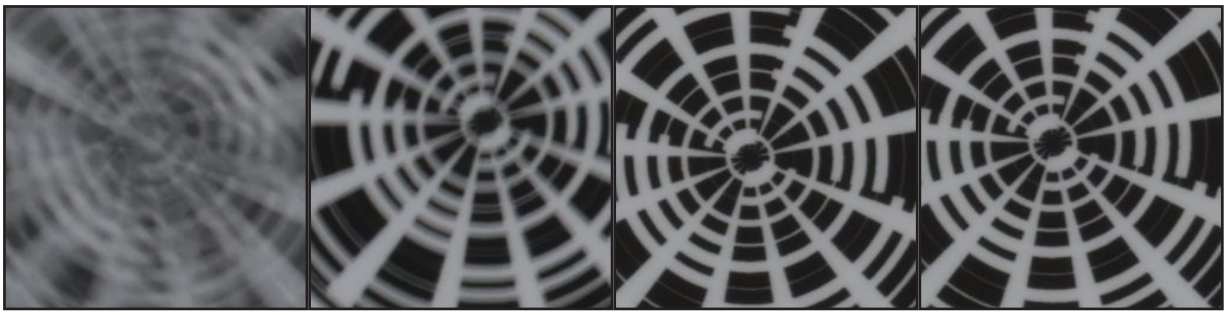
	Shot 1	Shot 2	Shot 3	Shot 4
Hold Type	Handheld	Handheld	Tripod	Tripod
Stabilisation	Off	On	Off	On
Aperture	f/13	f/13	f/13	f/13
Shutter Speed	0.4s	0.4s	0.4s	0.4s
EV	8.7 EV	8.7 EV	8.7 EV	8.7 EV
Colour Temperature	5200K	5200K	5200K	5200K
Camera Temperature	40°C	41°C	40°C	40°C
Quality Measure	458.7	1249.5	1722.7	1727.0
Optimised	Yes	Yes	Yes	Yes
Ignored	No	No	No	No
Spectral Power (R/G/B)	32.9% 33.1% 34.0%	32.9% 33.1% 33.9%	33.2% 33.2% 33.6%	33.2% 33.2% 33.6%
Red Quality	460.1	1245.3	1736.1	1738.8
Green Quality	460.3	1258.9	1743.5	1744.7
Blue Quality	452.9	1243.3	1698.1	1694.1
Astigmatism Factor	18.2%	13.6%	-4.6%	-4.8%
Red-Blue Ratio	1.6%	0.2%	2.2%	2.6%
Red:Green	100.0%	98.9%	99.6%	99.7%
Blue:Green	98.4%	98.8%	97.4%	97.1%

The are crops of the section of image analysed by FoCal:

Shutter Speed: 0.3s

	Shot 1	Shot 2	Shot 3	Shot 4
Hold Type	Handheld	Handheld	Tripod	Tripod
Stabilisation	Off	On	Off	On
Aperture	f/11	f/11	f/11	f/11
Shutter Speed	0.3s	0.3s	0.3s	0.3s
EV	8.7 EV	8.7 EV	8.7 EV	8.7 EV
Colour Temperature	5200K	5200K	5200K	5200K
Camera Temperature	40°C	41°C	40°C	40°C
Quality Measure	482.0	1221.7	1727.2	1726.1
Optimised	Yes	Yes	Yes	Yes
Ignored	No	No	No	No
Spectral Power (R/G/B)	32.7% 33.2% 34.1%	32.9% 33.2% 33.9%	33.2% 33.2% 33.6%	33.2% 33.2% 33.6%
Red Quality	480.0	1226.0	1731.3	1741.9
Green Quality	484.3	1234.2	1743.0	1748.6
Blue Quality	482.8	1206.6	1698.7	1693.4
Astigmatism Factor	-1.3%	28.0%	-4.9%	-5.0%
Red-Blue Ratio	-0.6%	1.6%	1.9%	2.8%
Red:Green	99.1%	99.3%	99.3%	99.6%
Blue:Green	99.7%	97.8%	97.5%	96.8%

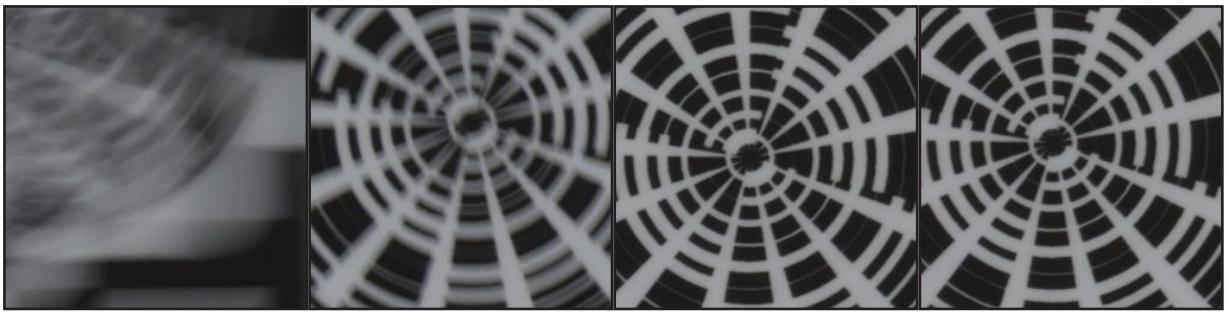
The are crops of the section of image analysed by FoCal:



Shutter Speed: 1/4s

	Shot 1	Shot 2	Shot 3	Shot 4
Hold Type	Handheld	Handheld	Tripod	Tripod
Stabilisation	Off	On	Off	On
Aperture	f/10	f/10	f/10	f/10
Shutter Speed	1/4s	1/4s	1/4s	1/4s
EV	8.6 EV	8.6 EV	8.6 EV	8.6 EV
Colour Temperature	5200K	5200K	5200K	5200K
Camera Temperature	40°C	41°C	40°C	40°C
Quality Measure	629.1	1154.3	1802.7	1803.9
Optimised	No	Yes	Yes	Yes
Ignored	No	No	No	No
Spectral Power (R/G/B)	32.8% 33.1% 34.1%	32.9% 33.1% 34.0%	33.2% 33.2% 33.6%	33.2% 33.2% 33.6%
Red Quality	620.9	1162.4	1818.1	1817.6
Green Quality	630.7	1167.5	1819.4	1820.4
Blue Quality	634.2	1133.4	1774.0	1764.0
Astigmatism Factor	-11.5%	42.0%	-2.1%	-2.7%
Red-Blue Ratio	-2.1%	2.5%	2.4%	2.9%
Red:Green	98.4%	99.6%	99.9%	99.9%
Blue:Green	100.5%	97.1%	97.5%	96.9%

The are crops of the section of image analysed by FoCal:



Shutter Speed: 1/5s

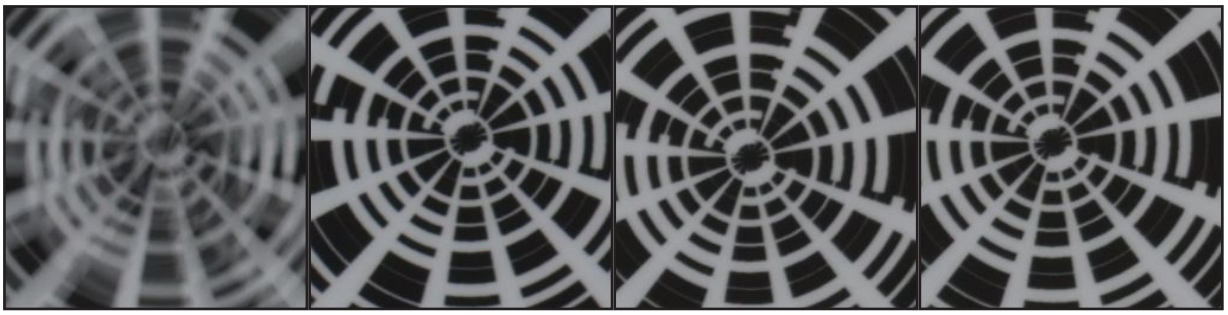
	Shot 1	Shot 2	Shot 3	Shot 4
Hold Type	Handheld	Handheld	Tripod	Tripod
Stabilisation	Off	On	Off	On
Aperture	f/9	f/9	f/9	f/9
Shutter Speed	1/5s	1/5s	1/5s	1/5s
EV	8.7 EV	8.7 EV	8.7 EV	8.7 EV
Colour Temperature	5200K	5200K	5200K	5200K
Camera Temperature	40°C	41°C	40°C	40°C
Quality Measure	623.2	1690.2	1780.4	1780.1
Optimised	Yes	Yes	Yes	Yes
Ignored	No	No	No	No
Spectral Power (R/G/B)	32.8% 33.2% 34.0%	32.9% 33.2% 33.9%	33.2% 33.2% 33.6%	33.2% 33.2% 33.6%
Red Quality	620.3	1714.7	1802.2	1799.1
Green Quality	621.4	1697.7	1794.7	1787.2
Blue Quality	620.2	1652.4	1752.5	1755.2
Astigmatism Factor	16.5%	-6.3%	-2.4%	-2.4%
Red-Blue Ratio	0.0%	3.6%	2.8%	2.4%
Red:Green	99.8%	101.0%	100.4%	100.7%
Blue:Green	99.8%	97.3%	97.6%	98.2%

The are crops of the section of image analysed by FoCal:

Shutter Speed: 1/6s

	Shot 1	Shot 2	Shot 3	Shot 4
Hold Type	Handheld	Handheld	Tripod	Tripod
Stabilisation	Off	On	Off	On
Aperture	f/8	f/8	f/8	f/8
Shutter Speed	1/6s	1/6s	1/6s	1/6s
EV	8.6 EV	8.6 EV	8.6 EV	8.6 EV
Colour Temperature	5200K	5200K	5200K	5200K
Camera Temperature	40°C	41°C	40°C	40°C
Quality Measure	977.8	1708.2	1764.3	1767.0
Optimised	Yes	Yes	Yes	Yes
Ignored	No	No	No	No
Spectral Power (R/G/B)	32.9% 33.2% 34.0%	32.9% 33.2% 33.9%	33.2% 33.2% 33.6%	33.2% 33.2% 33.6%
Red Quality	978.7	1725.1	1786.2	1784.4
Green Quality	982.4	1721.6	1770.1	1771.1
Blue Quality	970.3	1674.2	1739.4	1743.5
Astigmatism Factor	17.0%	-6.3%	-3.2%	-3.2%
Red-Blue Ratio	0.9%	3.0%	2.6%	2.3%
Red:Green	99.6%	100.2%	100.9%	100.8%
Blue:Green	98.8%	97.2%	98.3%	98.4%

The are crops of the section of image analysed by FoCal:



Shutter Speed: 1/8s

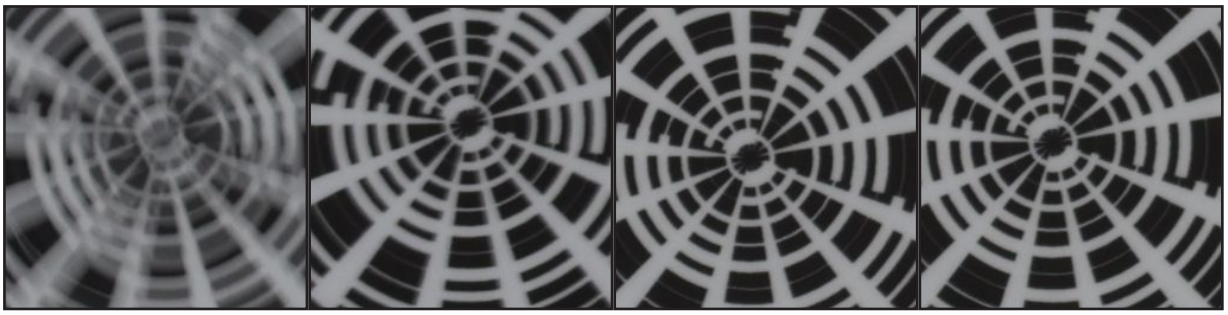
	Shot 1	Shot 2	Shot 3	Shot 4
Hold Type	Handheld	Handheld	Tripod	Tripod
Stabilisation	Off	On	Off	On
Aperture	f/8	f/8	f/8	f/8
Shutter Speed	1/8s	1/8s	1/8s	1/8s
EV	8.7 EV	8.7 EV	8.7 EV	8.7 EV
Colour Temperature	5200K	5200K	5200K	5200K
Camera Temperature	41°C	41°C	40°C	40°C
Quality Measure	755.8	1511.4	1755.7	1753.2
Optimised	Yes	Yes	Yes	Yes
Ignored	No	No	No	No
Spectral Power (R/G/B)	32.9% 33.2% 33.9%	32.9% 33.1% 34.0%	33.2% 33.2% 33.6%	33.2% 33.2% 33.6%
Red Quality	754.7	1533.6	1771.3	1767.3
Green Quality	757.2	1517.7	1760.7	1760.8
Blue Quality	755.2	1479.5	1735.3	1730.0
Astigmatism Factor	-49.0%	-31.5%	-3.3%	-3.2%
Red-Blue Ratio	-0.1%	3.5%	2.0%	2.1%
Red:Green	99.7%	101.0%	100.6%	100.4%
Blue:Green	99.7%	97.5%	98.6%	98.3%

The are crops of the section of image analysed by FoCal:

Shutter Speed: 1/10s

	Shot 1	Shot 2	Shot 3	Shot 4
Hold Type	Handheld	Handheld	Tripod	Tripod
Stabilisation	Off	On	Off	On
Aperture	f/8	f/8	f/8	f/8
Shutter Speed	1/10s	1/10s	1/10s	1/10s
EV	8.6 EV	8.6 EV	8.6 EV	8.6 EV
Colour Temperature	5200K	5200K	5200K	5200K
Camera Temperature	41°C	41°C	40°C	40°C
Quality Measure	800.3	1494.1	1766.0	1766.3
Optimised	Yes	Yes	Yes	Yes
Ignored	No	No	No	No
Spectral Power (R/G/B)	32.9% 33.1% 34.0%	33.0% 33.1% 34.0%	33.2% 33.1% 33.7%	33.2% 33.1% 33.7%
Red Quality	798.4	1518.7	1795.2	1787.7
Green Quality	798.5	1489.8	1759.8	1758.8
Blue Quality	804.1	1475.2	1744.0	1743.7
Astigmatism Factor	17.2%	-32.6%	-3.1%	-3.2%
Red-Blue Ratio	-0.7%	2.9%	2.8%	2.5%
Red:Green	100.0%	101.9%	102.0%	101.6%
Blue:Green	100.7%	99.0%	99.1%	99.1%

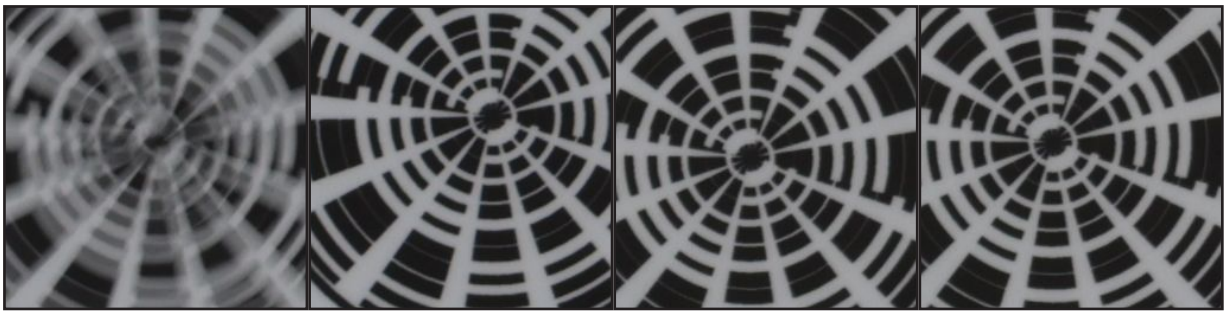
The are crops of the section of image analysed by FoCal:



Shutter Speed: 1/13s

	Shot 1	Shot 2	Shot 3	Shot 4
Hold Type	Handheld	Handheld	Tripod	Tripod
Stabilisation	Off	On	Off	On
Aperture	f/8	f/8	f/8	f/8
Shutter Speed	1/13s	1/13s	1/13s	1/13s
EV	8.7 EV	8.7 EV	8.7 EV	8.7 EV
Colour Temperature	5200K	5200K	5200K	5200K
Camera Temperature	41°C	41°C	40°C	40°C
Quality Measure	706.8	1726.1	1754.1	1752.2
Optimised	Yes	Yes	Yes	Yes
Ignored	No	No	No	No
Spectral Power (R/G/B)	33.0% 33.1% 33.9%	33.0% 33.1% 33.9%	33.2% 33.2% 33.6%	33.3% 33.2% 33.6%
Red Quality	706.7	1752.4	1777.1	1775.8
Green Quality	703.7	1733.6	1755.6	1751.1
Blue Quality	709.6	1694.5	1731.5	1729.0
Astigmatism Factor	23.5%	-4.4%	-3.0%	-3.4%
Red-Blue Ratio	-0.4%	3.3%	2.6%	2.6%
Red:Green	100.4%	101.1%	101.2%	101.4%
Blue:Green	100.8%	97.7%	98.6%	98.7%

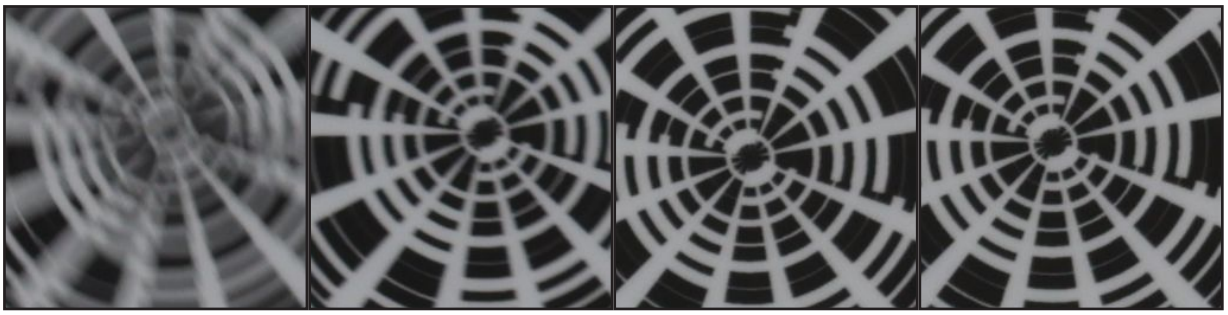
The are crops of the section of image analysed by FoCal:



Shutter Speed: 1/15s

	Shot 1	Shot 2	Shot 3	Shot 4
Hold Type	Handheld	Handheld	Tripod	Tripod
Stabilisation	Off	On	Off	On
Aperture	f/8	f/8	f/8	f/8
Shutter Speed	1/15s	1/15s	1/15s	1/15s
EV	8.6 EV	8.6 EV	8.6 EV	8.6 EV
Colour Temperature	5200K	5200K	5200K	5200K
Camera Temperature	41°C	41°C	40°C	40°C
Quality Measure	634.5	1437.2	1727.4	1742.0
Optimised	Yes	Yes	Yes	Yes
Ignored	No	No	No	No
Spectral Power (R/G/B)	33.0% 33.2% 33.9%	32.9% 33.2% 33.9%	33.2% 33.2% 33.6%	33.2% 33.2% 33.6%
Red Quality	637.1	1461.3	1744.1	1760.8
Green Quality	635.6	1443.9	1728.4	1745.2
Blue Quality	631.9	1412.3	1705.6	1718.8
Astigmatism Factor	28.7%	-23.9%	-4.9%	-3.4%
Red-Blue Ratio	0.8%	3.4%	2.2%	2.4%
Red:Green	100.2%	101.2%	100.9%	100.9%
Blue:Green	99.4%	97.8%	98.7%	98.5%

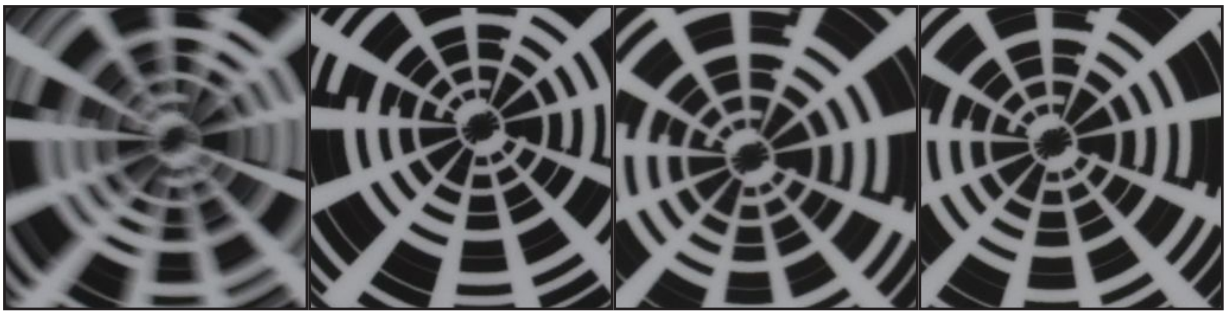
The are crops of the section of image analysed by FoCal:



Shutter Speed: 1/20s

	Shot 1	Shot 2	Shot 3	Shot 4
Hold Type	Handheld	Handheld	Tripod	Tripod
Stabilisation	Off	On	Off	On
Aperture	f/8	f/8	f/8	f/8
Shutter Speed	1/20s	1/20s	1/20s	1/20s
EV	8.6 EV	8.6 EV	8.6 EV	8.6 EV
Colour Temperature	5200K	5200K	5200K	5200K
Camera Temperature	41°C	42°C	40°C	40°C
Quality Measure	1054.8	1738.7	1659.5	1745.8
Optimised	Yes	Yes	Yes	Yes
Ignored	No	No	No	No
Spectral Power (R/G/B)	32.9% 33.1% 33.9%	33.0% 33.1% 33.9%	33.2% 33.2% 33.7%	33.2% 33.2% 33.7%
Red Quality	1060.7	1764.8	1679.3	1765.8
Green Quality	1055.5	1741.3	1659.7	1747.2
Blue Quality	1045.3	1715.7	1636.5	1722.8
Astigmatism Factor	-51.0%	-0.9%	-12.1%	-3.1%
Red-Blue Ratio	1.4%	2.8%	2.6%	2.4%
Red:Green	100.5%	101.4%	101.2%	101.1%
Blue:Green	99.0%	98.5%	98.6%	98.6%

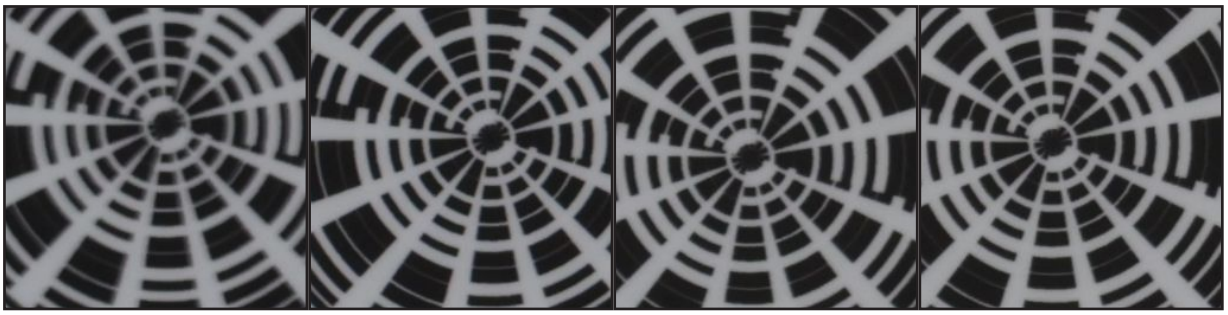
The are crops of the section of image analysed by FoCal:



Shutter Speed: 1/25s

	Shot 1	Shot 2	Shot 3	Shot 4
Hold Type	Handheld	Handheld	Tripod	Tripod
Stabilisation	Off	On	Off	On
Aperture	f/8	f/8	f/8	f/8
Shutter Speed	1/25s	1/25s	1/25s	1/25s
EV	8.6 EV	8.6 EV	8.6 EV	8.6 EV
Colour Temperature	5200K	5200K	5200K	5200K
Camera Temperature	41°C	42°C	40°C	40°C
Quality Measure	1403.3	1712.8	1718.2	1741.9
Optimised	Yes	Yes	Yes	Yes
Ignored	No	No	No	No
Spectral Power (R/G/B)	32.9% 33.1% 34.0%	33.0% 33.1% 33.9%	33.2% 33.2% 33.7%	33.2% 33.2% 33.6%
Red Quality	1421.1	1738.5	1738.7	1764.7
Green Quality	1404.6	1715.2	1721.3	1744.8
Blue Quality	1381.5	1680.9	1694.5	1716.5
Astigmatism Factor	-29.3%	-6.6%	-6.1%	-3.4%
Red-Blue Ratio	2.8%	3.3%	2.5%	2.7%
Red:Green	101.2%	101.4%	101.0%	101.1%
Blue:Green	98.4%	98.0%	98.4%	98.4%

The are crops of the section of image analysed by FoCal:



Shutter Speed: 1/30s

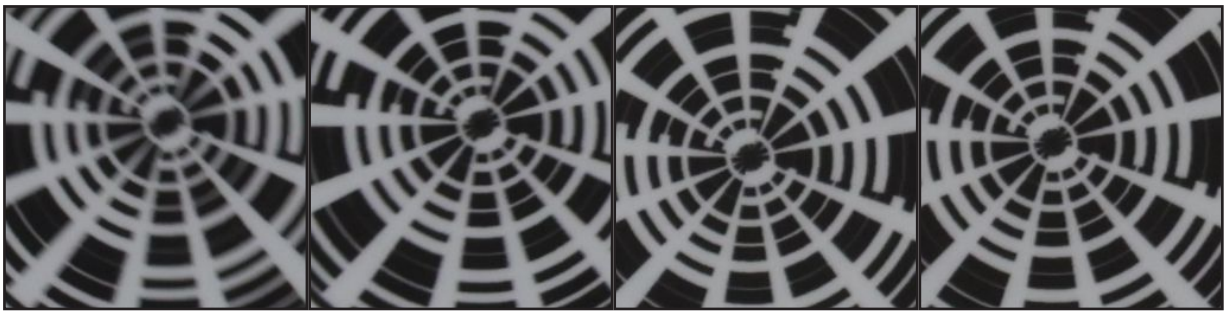
	Shot 1	Shot 2	Shot 3	Shot 4
Hold Type	Handheld	Handheld	Tripod	Tripod
Stabilisation	Off	On	Off	On
Aperture	f/8	f/8	f/8	f/8
Shutter Speed	1/30s	1/30s	1/30s	1/30s
EV	8.6 EV	8.6 EV	8.6 EV	8.6 EV
Colour Temperature	5200K	5200K	5200K	5200K
Camera Temperature	41°C	42°C	40°C	40°C
Quality Measure	889.4	1719.5	1720.4	1730.4
Optimised	Yes	Yes	Yes	Yes
Ignored	No	No	No	No
Spectral Power (R/G/B)	33.0% 33.0% 34.0%	33.0% 33.1% 33.9%	33.3% 33.1% 33.6%	33.3% 33.1% 33.6%
Red Quality	891.6	1746.2	1737.1	1746.9
Green Quality	889.7	1727.6	1725.9	1734.6
Blue Quality	886.4	1686.5	1698.3	1707.4
Astigmatism Factor	-23.4%	-4.6%	-4.4%	-3.6%
Red-Blue Ratio	0.6%	3.4%	2.2%	2.3%
Red:Green	100.2%	101.1%	100.6%	100.7%
Blue:Green	99.6%	97.6%	98.4%	98.4%

The are crops of the section of image analysed by FoCal:

Shutter Speed: 1/40s

	Shot 1	Shot 2	Shot 3	Shot 4
Hold Type	Handheld	Handheld	Tripod	Tripod
Stabilisation	Off	On	Off	On
Aperture	f/8	f/8	f/8	f/8
Shutter Speed	1/40s	1/40s	1/40s	1/40s
EV	8.6 EV	8.6 EV	8.6 EV	8.6 EV
Colour Temperature	5200K	5200K	5200K	5200K
Camera Temperature	41°C	42°C	40°C	40°C
Quality Measure	1274.4	1573.9	1733.3	1727.0
Optimised	Yes	Yes	Yes	Yes
Ignored	No	No	No	No
Spectral Power (R/G/B)	33.0% 33.1% 33.9%	33.0% 33.1% 33.9%	33.2% 33.2% 33.6%	33.3% 33.2% 33.6%
Red Quality	1286.5	1587.7	1748.9	1745.8
Green Quality	1277.4	1577.2	1738.2	1731.4
Blue Quality	1261.2	1554.6	1713.5	1708.6
Astigmatism Factor	-12.1%	-19.2%	-3.5%	-3.3%
Red-Blue Ratio	2.0%	2.1%	2.0%	2.1%
Red:Green	100.7%	100.7%	100.6%	100.8%
Blue:Green	98.7%	98.6%	98.6%	98.7%

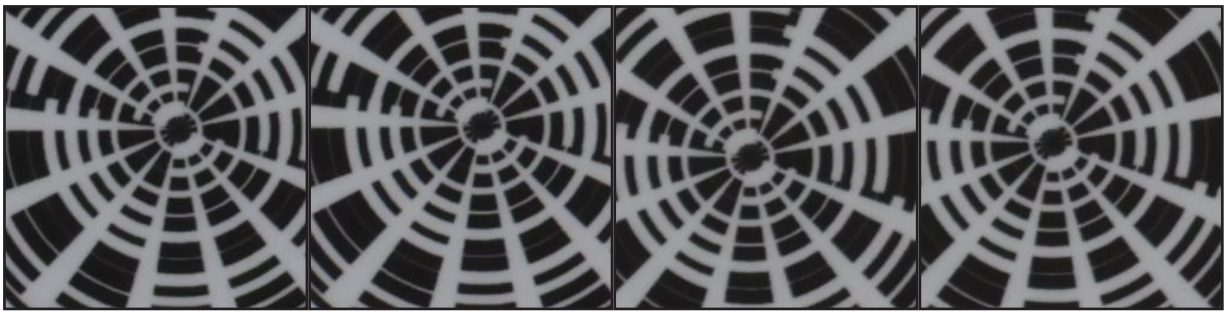
The are crops of the section of image analysed by FoCal:



Shutter Speed: 1/50s

	Shot 1	Shot 2	Shot 3	Shot 4
Hold Type	Handheld	Handheld	Tripod	Tripod
Stabilisation	Off	On	Off	On
Aperture	f/8	f/8	f/8	f/8
Shutter Speed	1/50s	1/50s	1/50s	1/50s
EV	8.6 EV	8.6 EV	8.6 EV	8.6 EV
Colour Temperature	5200K	5200K	5200K	5200K
Camera Temperature	41°C	42°C	40°C	40°C
Quality Measure	1732.5	1730.8	1720.8	1716.9
Optimised	Yes	Yes	Yes	Yes
Ignored	No	No	No	No
Spectral Power (R/G/B)	33.0% 33.1% 33.9%	33.0% 33.1% 33.9%	33.2% 33.2% 33.6%	33.3% 33.1% 33.6%
Red Quality	1751.7	1744.5	1731.7	1730.8
Green Quality	1735.7	1739.9	1721.4	1723.2
Blue Quality	1713.3	1711.1	1701.9	1698.7
Astigmatism Factor	-3.5%	-3.5%	-3.6%	-3.5%
Red-Blue Ratio	2.2%	1.9%	1.7%	1.9%
Red:Green	100.9%	100.3%	100.6%	100.4%
Blue:Green	98.7%	98.3%	98.9%	98.6%

The are crops of the section of image analysed by FoCal:



Shutter Speed: 1/60s

	Shot 1	Shot 2	Shot 3	Shot 4
Hold Type	Handheld	Handheld	Tripod	Tripod
Stabilisation	Off	On	Off	On
Aperture	f/8	f/8	f/8	f/8
Shutter Speed	1/60s	1/60s	1/60s	1/60s
EV	8.9 EV	8.9 EV	8.9 EV	8.9 EV
Colour Temperature	5200K	5200K	5200K	5200K
Camera Temperature	41°C	42°C	40°C	40°C
Quality Measure	1476.1	1641.7	1687.8	1687.8
Optimised	Yes	Yes	Yes	Yes
Ignored	No	No	No	No
Spectral Power (R/G/B)	32.9% 33.1% 34.0%	32.9% 33.1% 34.0%	33.2% 33.1% 33.7%	33.2% 33.1% 33.7%
Red Quality	1491.2	1660.0	1703.3	1702.3
Green Quality	1480.0	1648.5	1695.1	1693.6
Blue Quality	1455.9	1616.6	1662.5	1667.1
Astigmatism Factor	3.3%	-9.6%	-3.5%	-3.5%
Red-Blue Ratio	2.4%	2.6%	2.4%	2.1%
Red:Green	100.8%	100.7%	100.5%	100.5%
Blue:Green	98.4%	98.1%	98.1%	98.4%

The are crops of the section of image analysed by FoCal:

Shutter Speed: 1/80s

	Shot 1	Shot 2	Shot 3	Shot 4
Hold Type	Handheld	Handheld	Tripod	Tripod
Stabilisation	Off	On	Off	On
Aperture	f/8	f/8	f/8	f/8
Shutter Speed	1/80s	1/80s	1/80s	1/80s
EV	9.3 EV	9.3 EV	9.3 EV	9.3 EV
Colour Temperature	5200K	5200K	5200K	5200K
Camera Temperature	41°C	42°C	40°C	40°C
Quality Measure	1649.5	1624.1	1650.9	1644.1
Optimised	Yes	Yes	Yes	Yes
Ignored	No	No	No	No
Spectral Power (R/G/B)	32.8% 33.1% 34.1%	32.9% 33.1% 34.0%	33.1% 33.1% 33.7%	33.1% 33.1% 33.8%
Red Quality	1669.8	1642.1	1669.4	1662.2
Green Quality	1662.2	1634.3	1663.7	1657.6
Blue Quality	1618.3	1595.4	1623.9	1611.1
Astigmatism Factor	-1.4%	-7.5%	-3.9%	-4.1%
Red-Blue Ratio	3.1%	2.8%	2.7%	3.1%
Red:Green	100.5%	100.5%	100.3%	100.3%
Blue:Green	97.4%	97.6%	97.6%	97.2%

The are crops of the section of image analysed by FoCal:

Shutter Speed: 1/100s

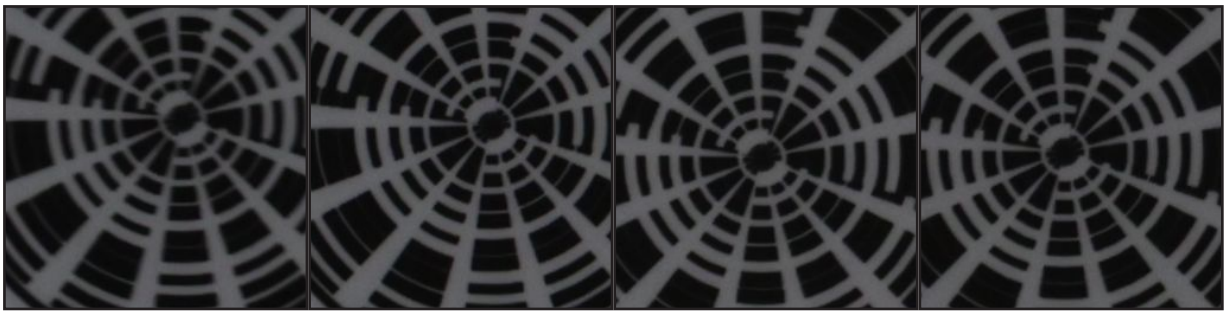
	Shot 1	Shot 2	Shot 3	Shot 4
Hold Type	Handheld	Handheld	Tripod	Tripod
Stabilisation	Off	On	Off	On
Aperture	f/8	f/8	f/8	f/8
Shutter Speed	1/100s	1/100s	1/100s	1/100s
EV	9.6 EV	9.6 EV	9.6 EV	9.6 EV
Colour Temperature	5200K	5200K	5200K	5200K
Camera Temperature	41°C	42°C	40°C	40°C
Quality Measure	1598.8	1604.0	1600.1	1600.8
Optimised	Yes	Yes	Yes	Yes
Ignored	No	No	No	No
Spectral Power (R/G/B)	32.8% 33.1% 34.1%	32.8% 33.1% 34.1%	33.1% 33.1% 33.7%	33.1% 33.2% 33.7%
Red Quality	1613.3	1618.2	1615.2	1615.2
Green Quality	1610.0	1620.4	1615.2	1612.7
Blue Quality	1566.7	1573.2	1573.6	1576.2
Astigmatism Factor	-7.4%	-4.9%	-4.1%	-4.5%
Red-Blue Ratio	2.9%	2.8%	2.6%	2.4%
Red:Green	100.2%	99.9%	100.0%	100.2%
Blue:Green	97.3%	97.1%	97.4%	97.7%

The are crops of the section of image analysed by FoCal:

Shutter Speed: 1/125s

	Shot 1	Shot 2	Shot 3	Shot 4
Hold Type	Handheld	Handheld	Tripod	Tripod
Stabilisation	Off	On	Off	On
Aperture	f/8	f/8	f/8	f/8
Shutter Speed	1/125s	1/125s	1/125s	1/125s
EV	10.0 EV	10.0 EV	10.0 EV	10.0 EV
Colour Temperature	5200K	5200K	5200K	5200K
Camera Temperature	41°C	42°C	40°C	40°C
Quality Measure	1359.8	1544.2	1551.4	1542.7
Optimised	Yes	Yes	Yes	Yes
Ignored	No	No	No	No
Spectral Power (R/G/B)	32.9% 33.0% 34.1%	33.0% 33.1% 34.0%	33.2% 33.1% 33.7%	33.1% 33.1% 33.7%
Red Quality	1377.2	1559.2	1570.4	1557.0
Green Quality	1373.2	1562.8	1564.9	1555.1
Blue Quality	1332.4	1513.9	1521.5	1511.0
Astigmatism Factor	-27.0%	-3.9%	-4.2%	-4.4%
Red-Blue Ratio	3.3%	2.9%	3.1%	3.0%
Red:Green	100.3%	99.8%	100.3%	100.1%
Blue:Green	97.0%	96.9%	97.2%	97.2%

The are crops of the section of image analysed by FoCal:



Shutter Speed: 1/160s

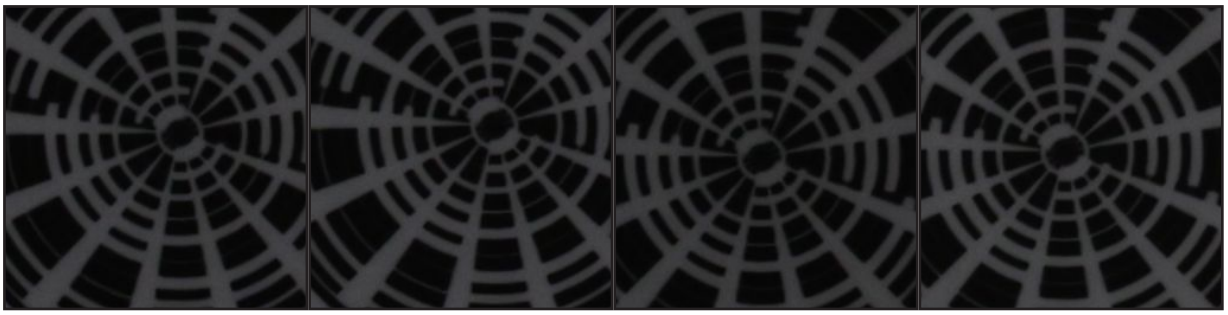
	Shot 1	Shot 2	Shot 3	Shot 4
Hold Type	Handheld	Handheld	Tripod	Tripod
Stabilisation	Off	On	Off	On
Aperture	f/8	f/8	f/8	f/8
Shutter Speed	1/160s	1/160s	1/160s	1/160s
EV	10.3 EV	10.3 EV	10.3 EV	10.3 EV
Colour Temperature	5200K	5200K	5200K	5200K
Camera Temperature	41°C	42°C	40°C	40°C
Quality Measure	1403.4	1463.6	1489.2	1479.6
Optimised	Yes	Yes	Yes	Yes
Ignored	No	No	No	No
Spectral Power (R/G/B)	33.0% 32.9% 34.2%	33.0% 33.0% 34.0%	33.1% 33.1% 33.8%	33.1% 33.1% 33.8%
Red Quality	1418.6	1477.3	1498.8	1493.9
Green Quality	1421.0	1479.8	1500.7	1498.4
Blue Quality	1374.1	1431.0	1468.3	1445.9
Astigmatism Factor	-14.8%	-5.0%	-4.9%	-4.3%
Red-Blue Ratio	3.1%	3.1%	2.0%	3.2%
Red:Green	99.8%	99.8%	99.9%	99.7%
Blue:Green	96.7%	96.7%	97.8%	96.5%

The are crops of the section of image analysed by FoCal:

Shutter Speed: 1/200s

	Shot 1	Shot 2	Shot 3	Shot 4
Hold Type	Handheld	Handheld	Tripod	Tripod
Stabilisation	Off	On	Off	On
Aperture	f/8	f/8	f/8	f/8
Shutter Speed	1/200s	1/200s	1/200s	1/200s
EV	10.6 EV	10.6 EV	10.6 EV	10.6 EV
Colour Temperature	5200K	5200K	5200K	5200K
Camera Temperature	41°C	42°C	40°C	40°C
Quality Measure	1417.2	1435.8	1426.0	1452.9
Optimised	Yes	Yes	Yes	Yes
Ignored	No	No	No	No
Spectral Power (R/G/B)	33.0% 32.9% 34.0%	33.0% 32.9% 34.1%	33.2% 33.0% 33.8%	33.2% 33.0% 33.8%
Red Quality	1427.0	1444.8	1435.1	1460.3
Green Quality	1438.6	1461.6	1456.6	1479.5
Blue Quality	1381.6	1398.4	1383.4	1416.6
Astigmatism Factor	-0.8%	-5.1%	-3.9%	-4.5%
Red-Blue Ratio	3.2%	3.2%	3.6%	3.0%
Red:Green	99.2%	98.9%	98.5%	98.7%
Blue:Green	96.0%	95.7%	95.0%	95.8%

The are crops of the section of image analysed by FoCal:

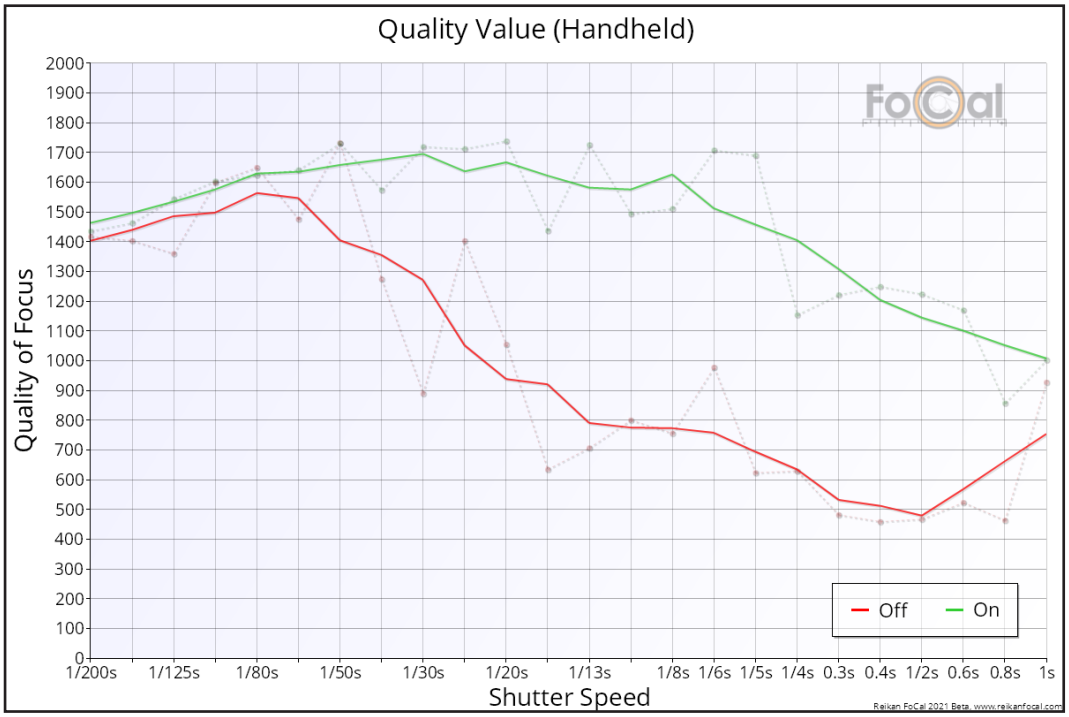


Charts

Quality Value (Handheld)

The Quality Value chart shows the absolute quality value of each point taken with stabilisation both active and disabled.

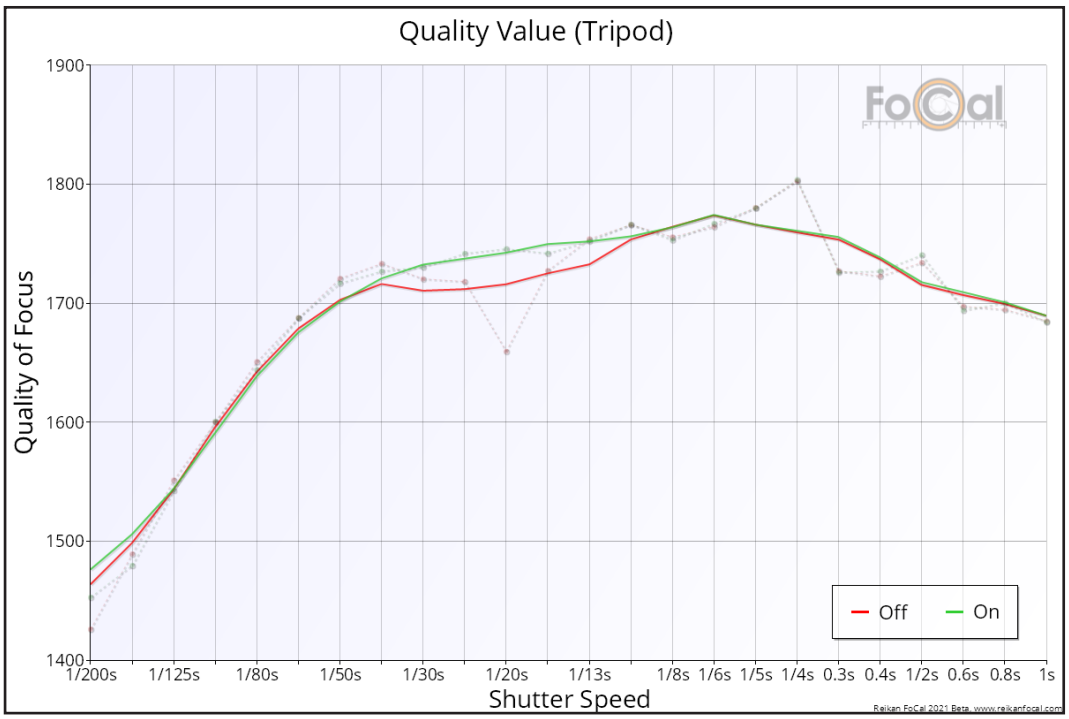
For detailed information about how to interpret this chart, please see: http://help.reikanfocal.com/help2/1300.html



Quality Value (Tripod)

The Quality Value chart shows the absolute quality value of each point taken with stabilisation both active and disabled.

For detailed information about how to interpret this chart, please see: http://help.reikanfocal.com/help2/1300.html



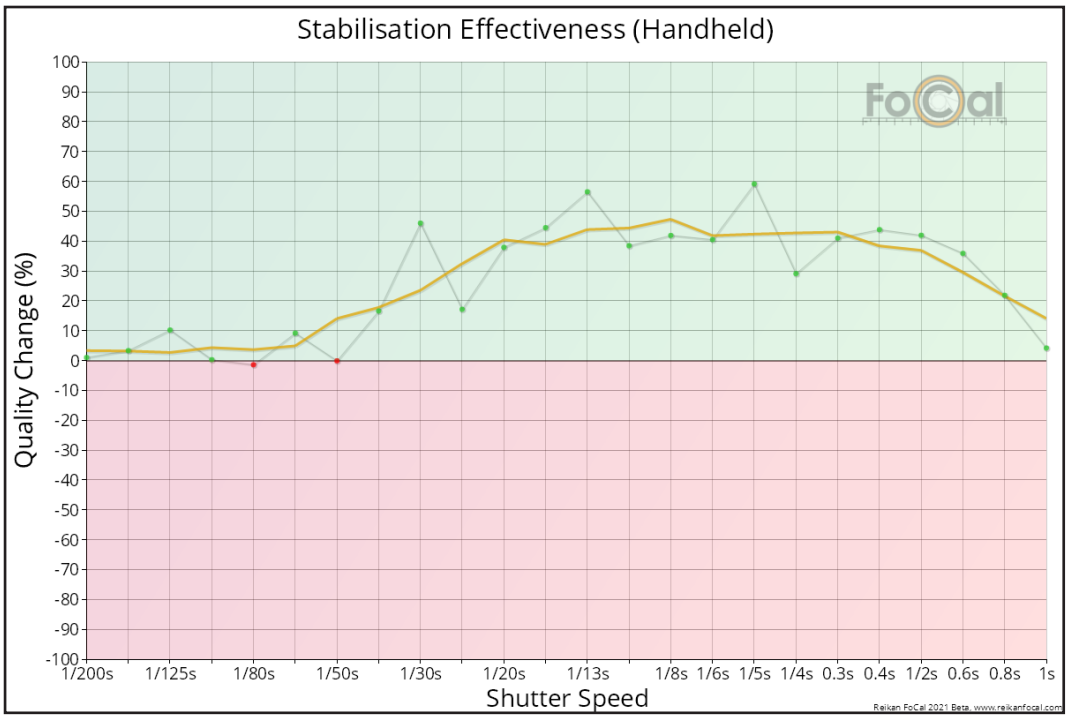
Stabilisation Effectiveness (Handheld)

Stabilisation Effectiveness shows the change in quality at each point when stabilisation is activated. As the line rises into the green area, this shows an improvement in quality with stabilisation enabled. If the line drops into the red area, this indicates that the stabilisation system is degrading the image.

For handheld results at slower shutter speeds, you should notice a significant quality improvement when stabilisation is enabled as it compensates for the movement.

At faster shutter speeds (typically less than around 1/200s), there should be very little difference between the quality value when stabilisation is enabled.

For detailed information about how to interpret this chart, please see: http://help.reikanfocal.com/help2/1301.html



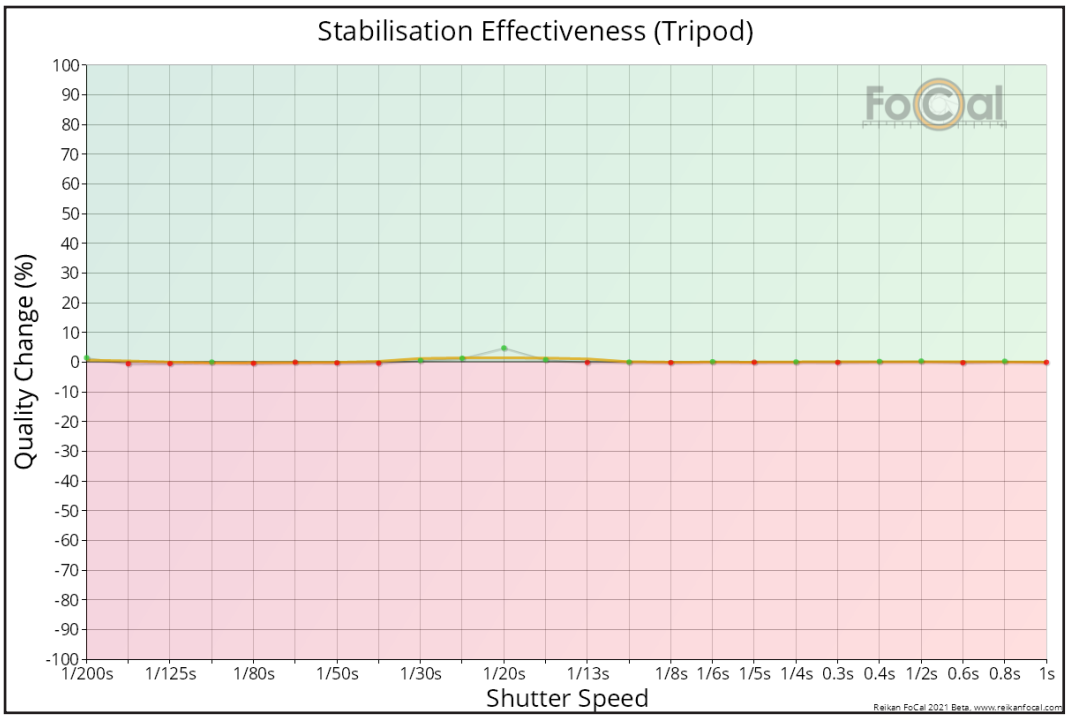
Stabilisation Effectiveness (Tripod)

Stabilisation Effectiveness shows the change in quality at each point when stabilisation is activated. As the line rises into the green area, this shows an improvement in quality with stabilisation enabled. If the line drops into the red area, this indicates that the stabilisation system is degrading the image.

For tripod results, ideally you should see no difference between the results with stabilisation enabled or disabled, and therefore should see a flat line along the 0 change value.

For some cameras/lenses, you may notice that the quality drops at slower shutter speeds when stabilisation is enabled. If you see this, you should ensure that you disable the stabilisation system when shooting on a tripod.

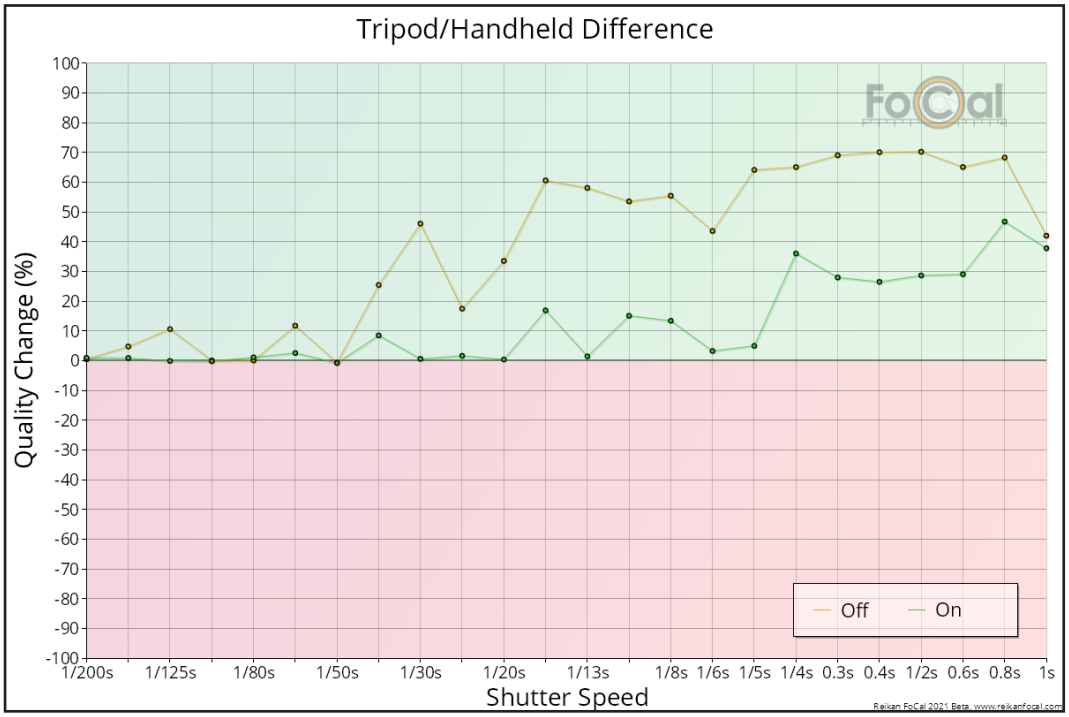
For detailed information about how to interpret this chart, please see: http://help.reikanfocal.com/help2/1302.html



Tripod/Handheld Difference

This chart shows the difference in quality values between shots taken on the tripod and those taken handheld.

For detailed information about how to interpret this chart, please see: http://help.reikanfocal.com/help2/1303.html



H/V Ratio (Handheld)

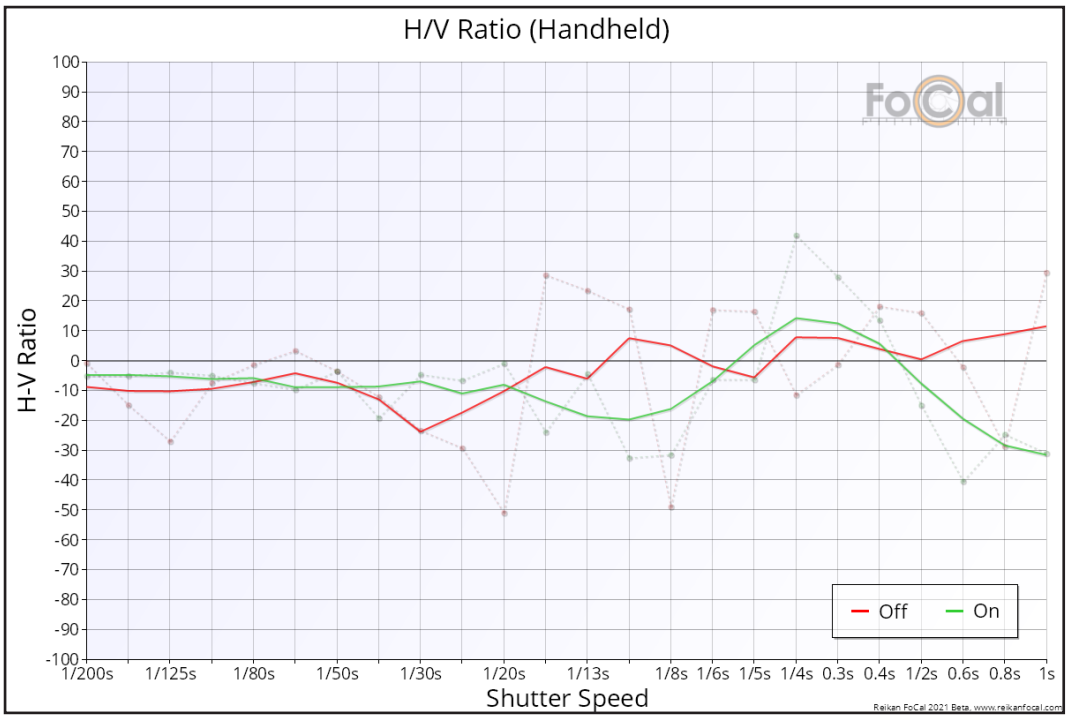
The H/V Ratio shows the relationship between the horizontal and vertical measured quality values.

For a sharp, well focused image, the H/V Ratio should be close to 0. If the image is blurred through even, optical defocusing, you will also see a ratio close to 0.

When the image is degraded due to movement in the horizontal direction, the value will drop below the 0 line, and if degraded due to movement in the vertical direction it will go above the 0 line.

Typically, when hand-holding a lens the vibration introduced will be in the horizontal plane, so you will usually see the line drop below the zero line as the image stabilisation system stops being able to compensate for movement.

For detailed information about how to interpret this chart, please see: http://help.reikanfocal.com/help2/1304.html



H/V Ratio (Tripod)

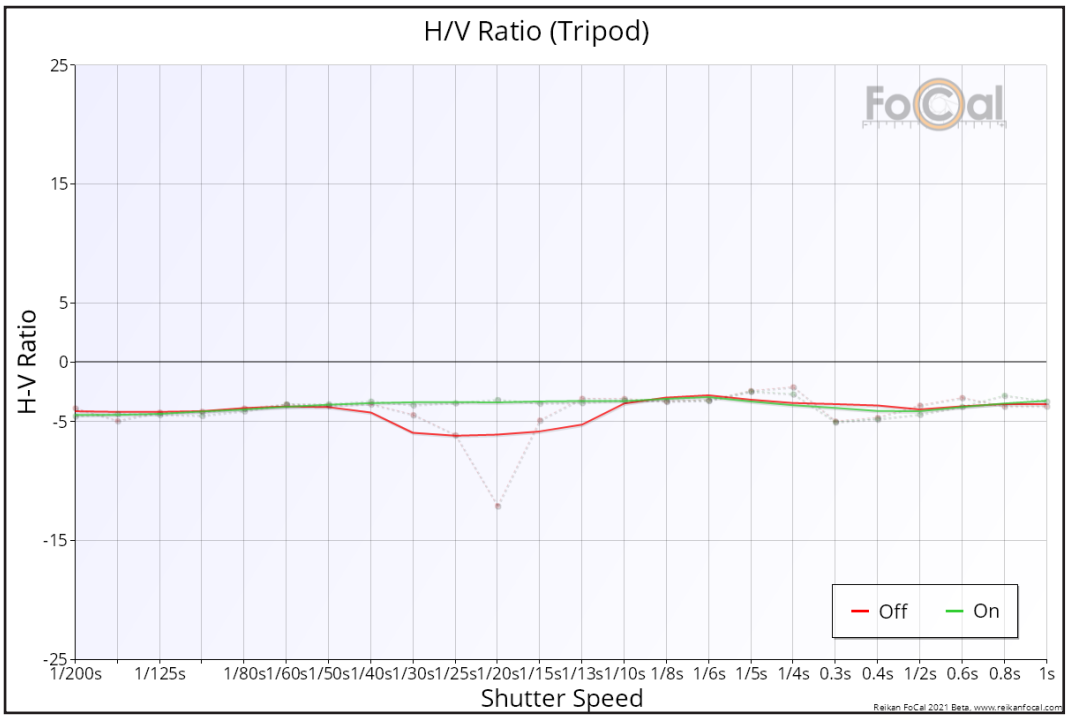
The H/V Ratio shows the relationship between the horizontal and vertical measured quality values.

For a sharp, well focused image, the H/V Ratio should be close to 0. If the image is blurred through even, optical defocusing, you will also see a ratio close to 0.

When the image is degraded due to movement in the horizontal direction, the value will drop below the 0 line, and if degraded due to movement in the vertical direction it will go above the 0 line.

Typically, when hand-holding a lens the vibration introduced will be in the horizontal plane, so you will usually see the line drop below the zero line as the image stabilisation system stops being able to compensate for movement.

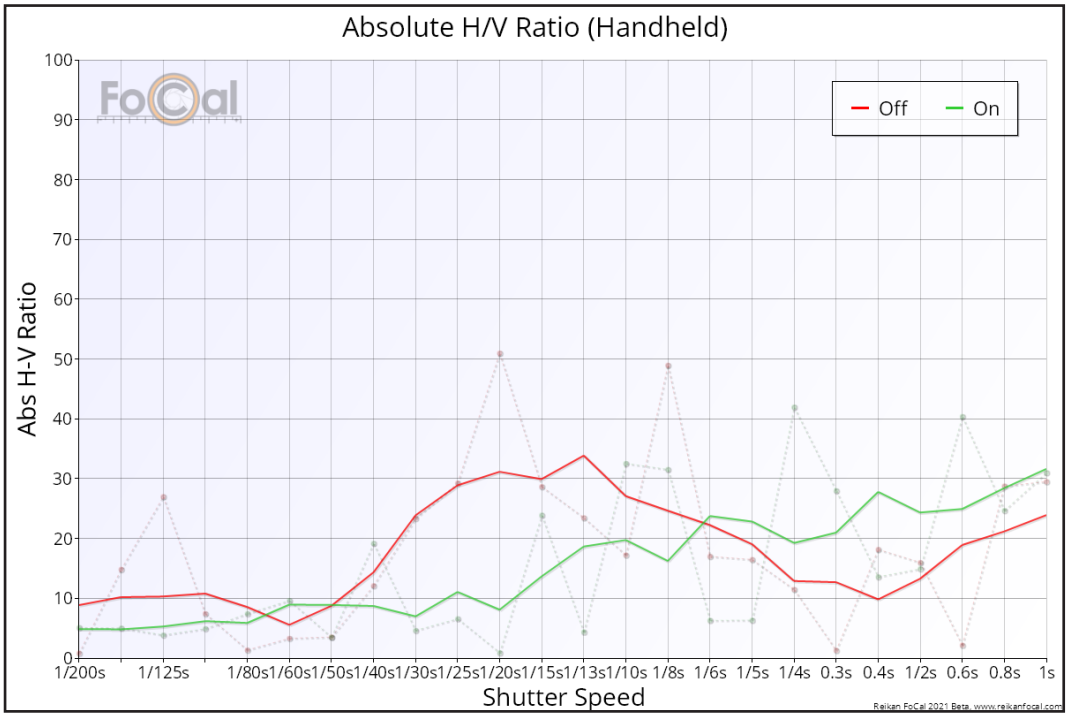
For detailed information about how to interpret this chart, please see: http://help.reikanfocal.com/help2/1304.html



Absolute H/V Ratio (Handheld)

The Absolute H/V Ratio shows the relationship between the horizontal and vertical measured quality values, but it ignores which axis is sharper and instead just shows a value proportional to the difference between horizontal and vertical results.

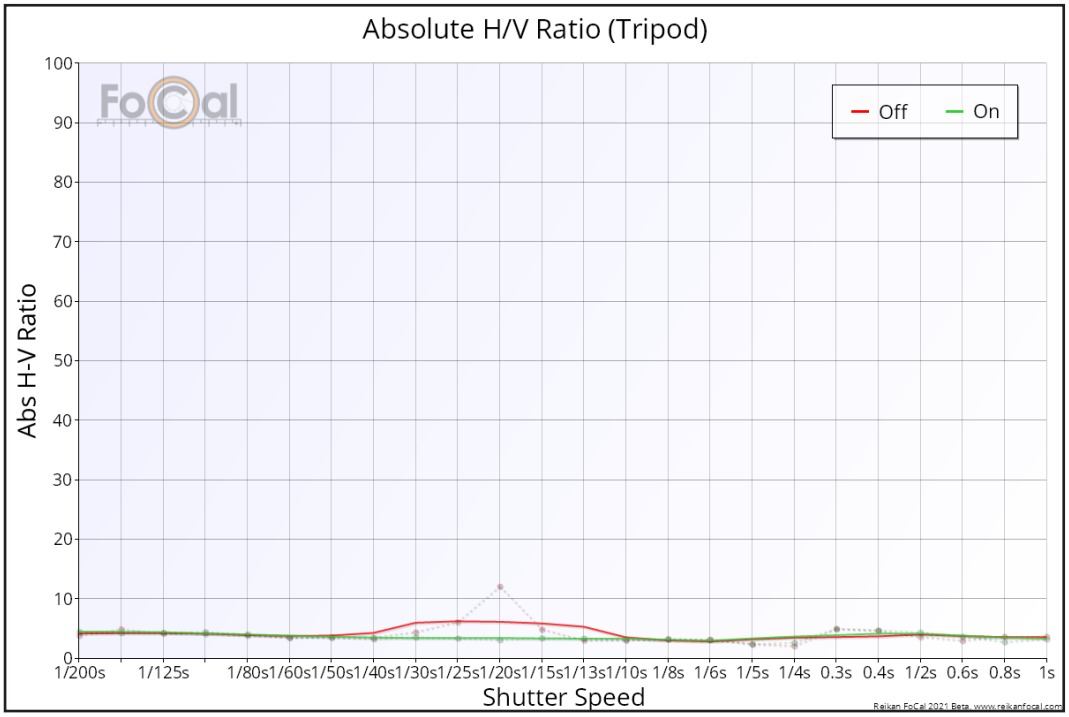
For detailed information about how to interpret this chart, please see: http://help.reikanfocal.com/help2/1305.html



Absolute H/V Ratio (Tripod)

The Absolute H/V Ratio shows the relationship between the horizontal and vertical measured quality values, but it ignores which axis is sharper and instead just shows a value proportional to the difference between horizontal and vertical results.

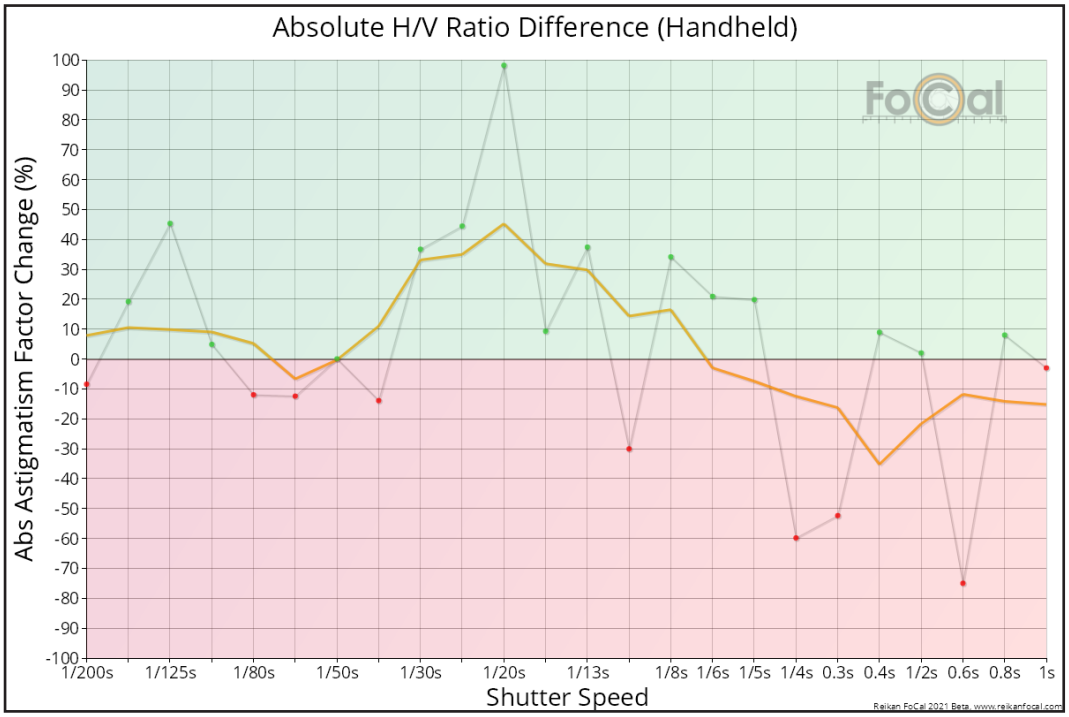
For detailed information about how to interpret this chart, please see: http://help.reikanfocal.com/help2/1305.html



Absolute H/V Ratio Difference (Handheld)

The Absolute H/V Ratio Difference shows the difference between the horizontal and vertical quality measurements with stabilisation enabled and disabled.

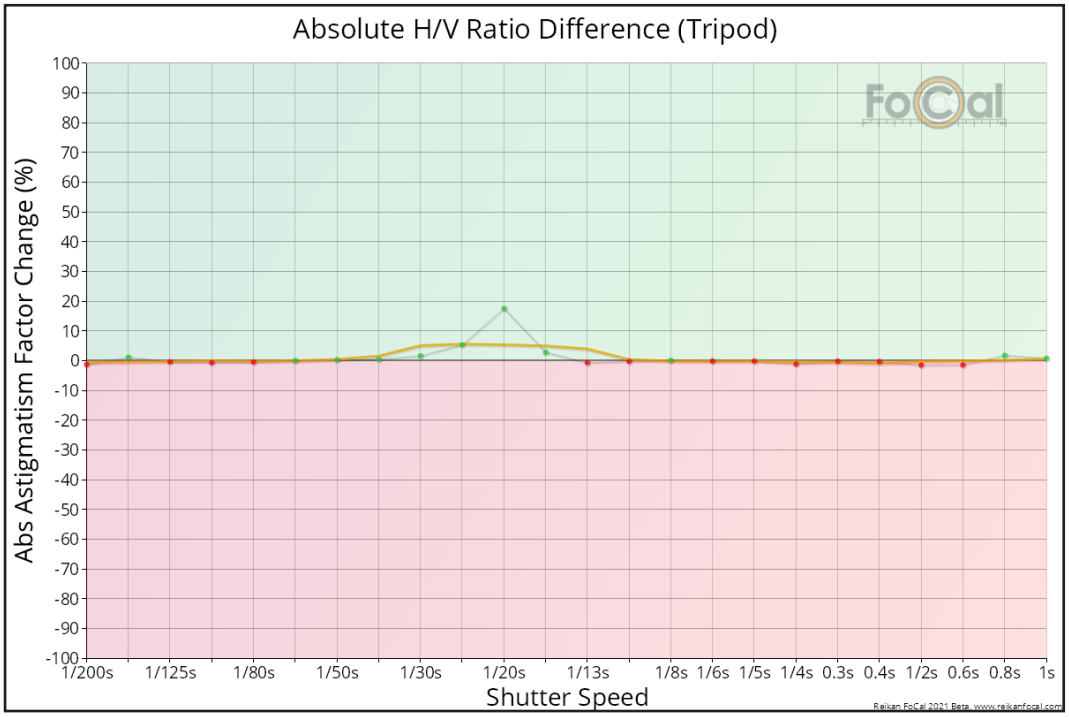
For detailed information about how to interpret this chart, please see: http://help.reikanfocal.com/help2/1306.html



Absolute H/V Ratio Difference (Tripod)

The Absolute H/V Ratio Difference shows the difference between the horizontal and vertical quality measurements with stabilisation enabled and disabled.

For detailed information about how to interpret this chart, please see: http://help.reikanfocal.com/help2/1306.html



Stops Improvement (Handheld)

This chart shows the number of stops improvement when the stabilisation is enabled compared to when it is disabled.

For each stabilisation-disabled quality level, this calculation tries to find the shutter speed of the same stabilisation-enabled quality and determine the number of stops between them.

This calculation is not available at every point, and is generally only populated and valid when the test captures shutter speeds where movement cannot be fully corrected by the stabilisation system (e.g. slower than around 1/4 second)

For detailed information about how to interpret this chart, please see: http://help.reikanfocal.com/help2/1307.html

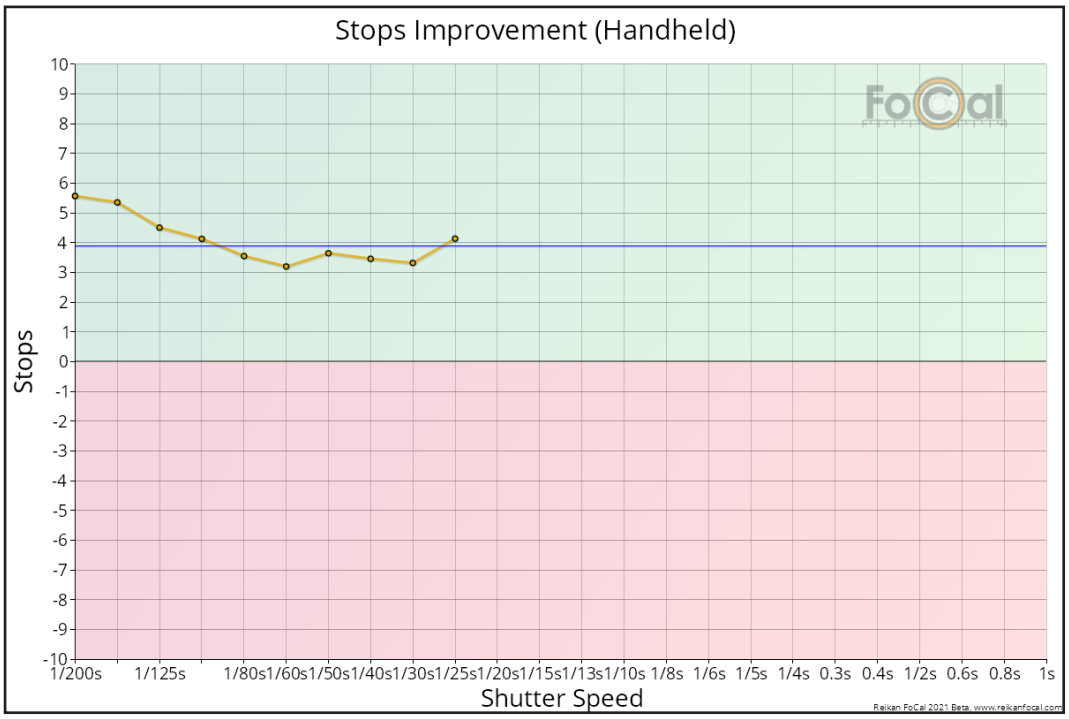


Image Motion (Handheld)

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.

For detailed information about how to interpret this chart, please see: http://help.reikanfocal.com/help2/1308.html

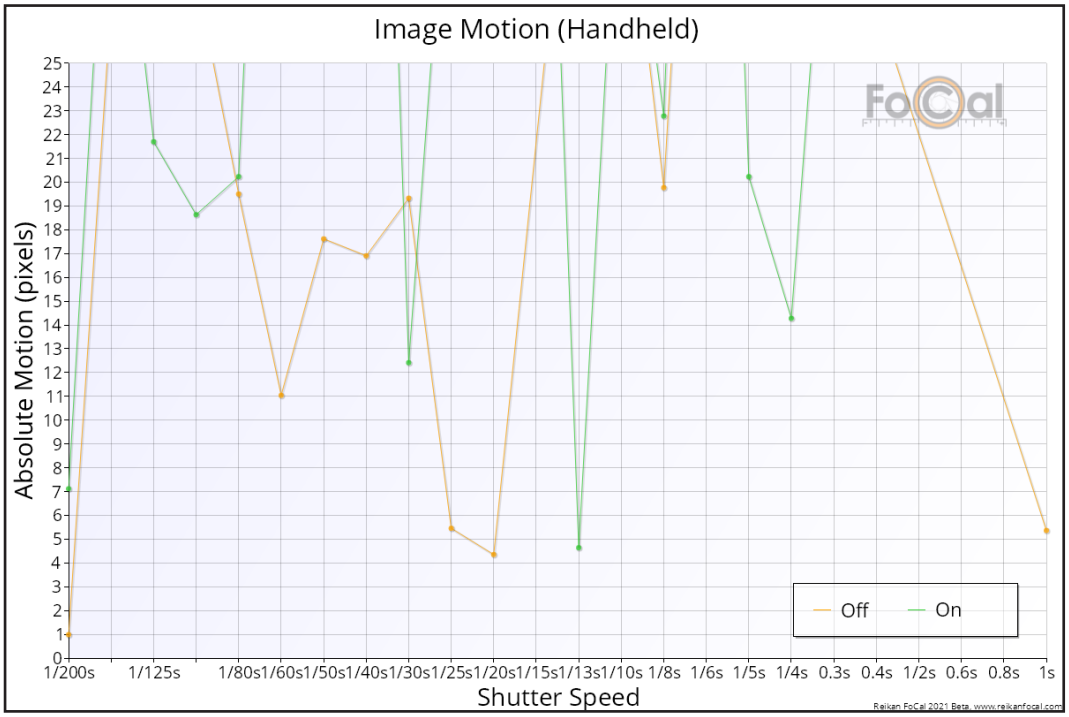


Image Motion (Tripod)

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.

For detailed information about how to interpret this chart, please see: http://help.reikanfocal.com/help2/1308.html

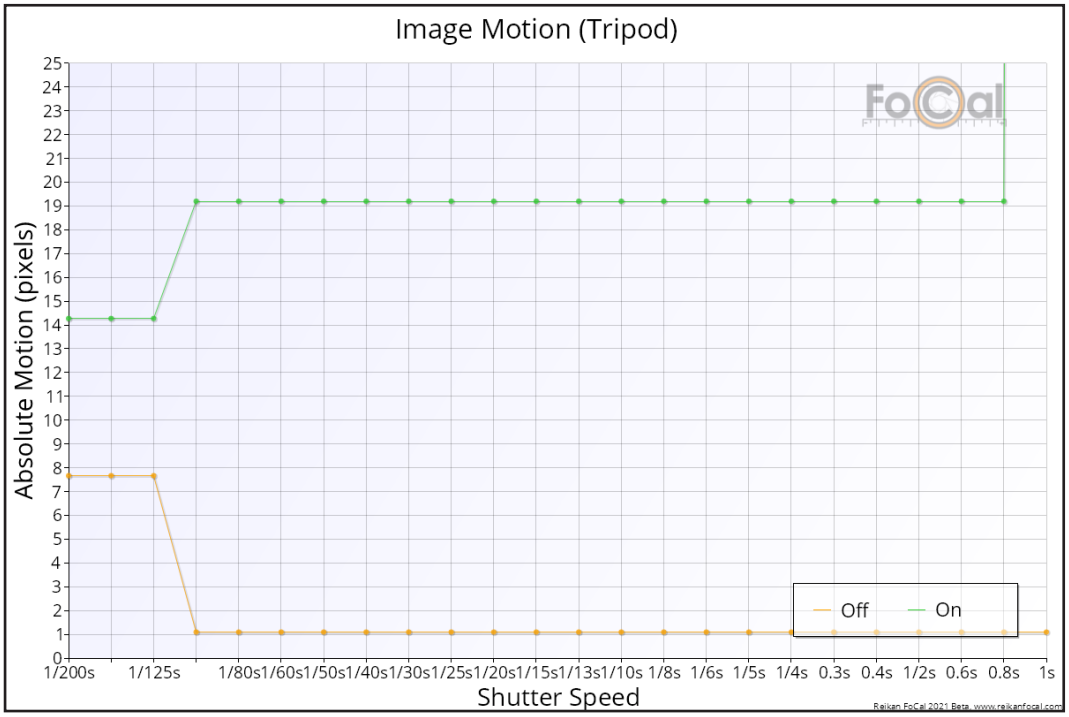


Image Motion (2D) (Handheld)

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 2D chart shows the the movement of the image as te test proceeds.

For detailed information about how to interpret this chart, please see: http://help.reikanfocal.com/help2/1309.html

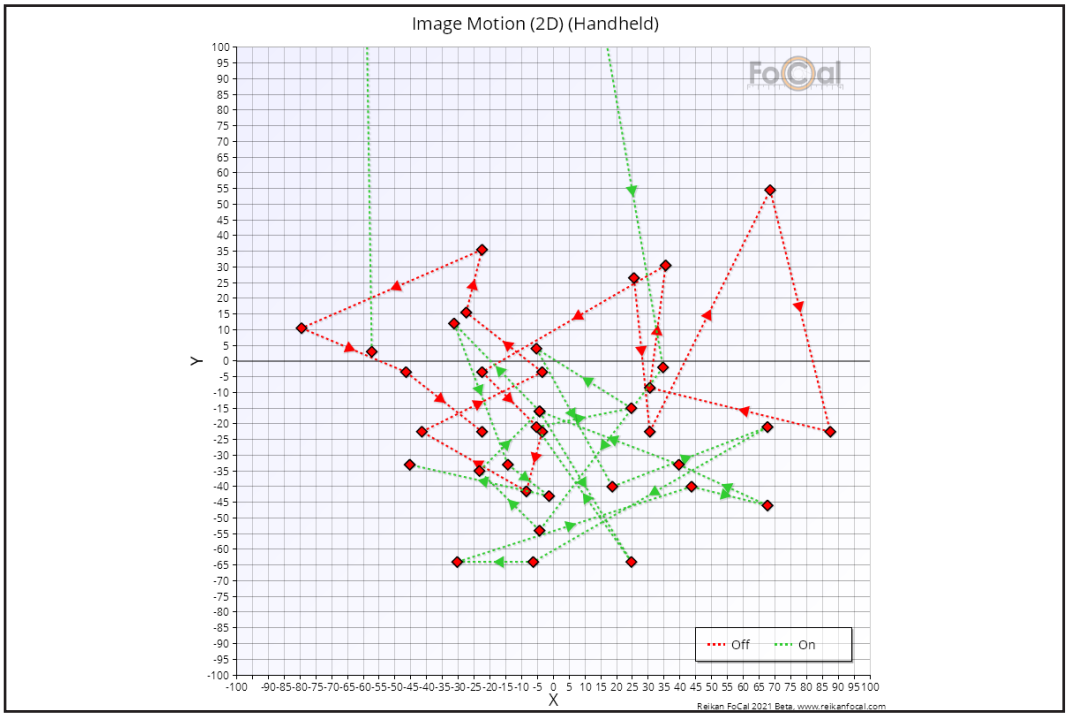


Image Motion (2D) (Tripod)

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 2D chart shows the the movement of the image as te test proceeds.

For detailed information about how to interpret this chart, please see: http://help.reikanfocal.com/help2/1309.html