

Documentation (Table of Contents)

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Image Quality

General

[Image quality factors](#) – Overview and Imatest measurements

Sharpness

[Sharpness](#) – What is it and how is it measured?

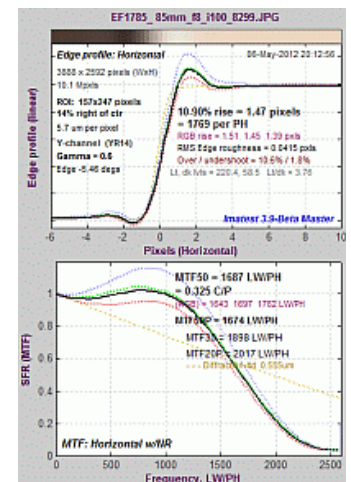
[Sharpening](#)- and Standardized Sharpening for comparing cameras

[MTF curves and Image appearance](#) – Correlating measurement with appearance

Other

[Chromatic Aberration](#)- AKA Color fringing

[Shannon information capacity](#)- information that can pass through a channel without error



Imatest Instructions — Getting started

[Installation](#) – and getting started

[Using Imatest](#)- Introduction and general instructions

Activation/Deactivation – Activating Imatest and moving it from one computer to another

Imatest Instructions — General instructions

[The Imatest Functional Interface](#)- A simplified interface for running tests with consistent settings

[Building a Low-Cost Test Lab](#) – How to build a testing lab

[Troubleshooting](#)- What to do when Imatest doesn't work

[Saved settings](#)- Using custom icons & shortcuts

Imatest IT— Industrial Testing (non-GUI)

[Imatest IT/EXE instructions](#)- Running Imatest IT (Industrial Testing)/EXE

[Imatest IT/DLL instructions](#)- Running Imatest IT (Industrial Testing)/DLL

[Imatest INI file reference](#)- Reference to INI files for IT/EXE and IT/DLL users (sections used in several modules)

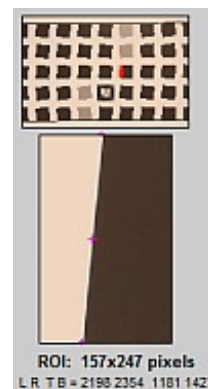
Imatest Instructions — Sharpness modules

SFR

[Using SFR Part 1](#)- Setting up and photographing SFR targets

[Using SFR Part 2](#)- Running Imatest SFR

[SFR results](#):- Chromatic Aberration, Noise, and Shannon capacity plot

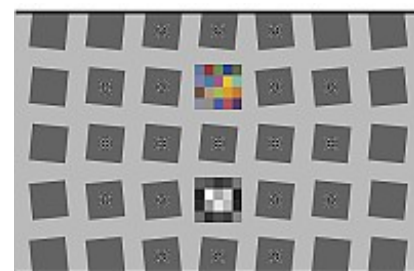


SFRplus

[Using SFRplus Part 1](#) – The SFRplus chart: features and how to photograph it

[Using SFRplus Part 2](#) – Running Imatest SFRplus

[Using SFRplus Part 3](#) – Imatest SFRplus results



Rescharts modules– Log F-Contrast, Star, Random, Wedge

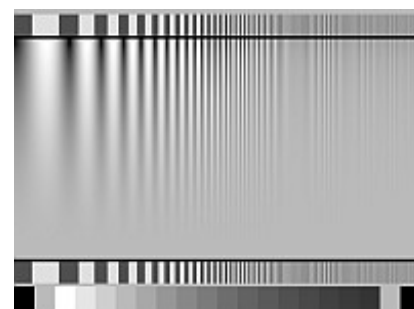
[Using Rescharts](#) – Analysis of resolution-related charts

[Log Frequency](#) - Analysis of log frequency-varying charts

[Log F-Contrast](#) – Analysis of charts that vary in log frequency and contrast

[Star Chart](#) – Analysis of the Siemens star chart

[Random Scale-invariant](#) – Analysis of a Random Scale-invariant pattern



[Wedge](#) – Analysis of hyperbolic or trapezoidal wedge patterns

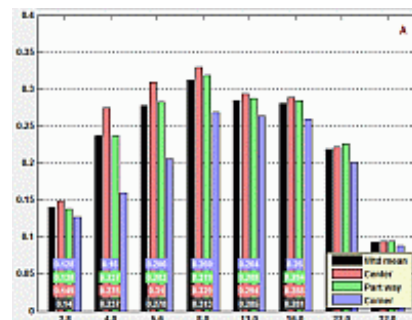
Sharpness utilities & postprocessors

[MTF Compare](#) – Compare MTFs of different cameras and lenses

[Batchview](#) – Postprocessor for viewing summaries of SFR, SFRplus results

[Find Sharpest Files](#) – Find the sharpest files in a batch

[How to Test Lenses with SFR](#) – (old page: Imatest SFRplus recommended)



Imatest Instructions — Tone, color, and spatial modules

Tone, Color, Noise, and Dynamic Range

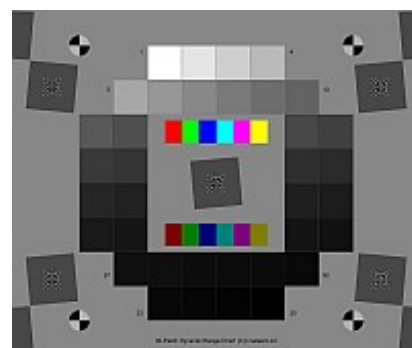
[Colorcheck Appendix](#) – Algorithms and reference formulas

[Dynamic Range](#) – Calculate Dynamic Range from several Stepchart images

[Using Multicharts](#) – Interactive analysis of several test charts

[Multicharts Noise](#) – Noise, and especially sensor (RAW) noise in Multicharts

[Multicharts Special Charts](#) – Additional charts, including ISO OECF and noise charts and circles arranged on a square



Spatial and Uniformity

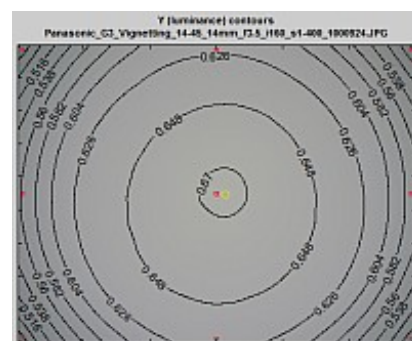
[Using Uniformity](#) – (formerly Light Falloff) Measure lens vignetting and sensor nonuniformity

[Using Uniformity-Interactive](#) – Interactive measurement of vignetting and sensor nonuniformity

[Uniformity: Imatest Master](#) – Features in Imatest Master or IS-only (not in Studio)

[Using Blemish Detect](#) – Measure visible sensor defects

[Dot Pattern](#) – Analysis of a grid of circular dots



Imatest Instructions — Miscellaneous modules and utilities

[Using Test Charts](#) – Creates test charts for high quality inkjet printers

[Using Screen Patterns](#) – Monitor patterns for Light Falloff, SFR, Distortion, and monitor calibration

[SVG Test Charts](#) – Scalable Vector Graphics charts for MTF measurements

[View/Rename Files](#) – using EXIF data

[Imatest IT/EXE instructions](#) – Running Imatest IT (Industrial Testing)/EXE

[Using Print Test](#) – Measure print quality factors: color response, tonal response, and Dmax

[Maskfill](#) – Removes features that interfere with Imatest measurements

Appendix

[Cross-reference tables](#) - Tables to help you navigate Imatest

[Version comparisons](#) – Differences between versions. Which is right for you?

[Troubleshooting](#)- What to do when Imatest doesn't work

[Imatest Change Log](#)- Imatest release history

[XML Changes](#)- New XML improvements in Imatest 3.5.1+

[Complete PDF documentation](#) – The whole docs- 14 MB and almost 500 pages, updated occasionally

[License](#)- The Imatest End User License Agreement (EULA)