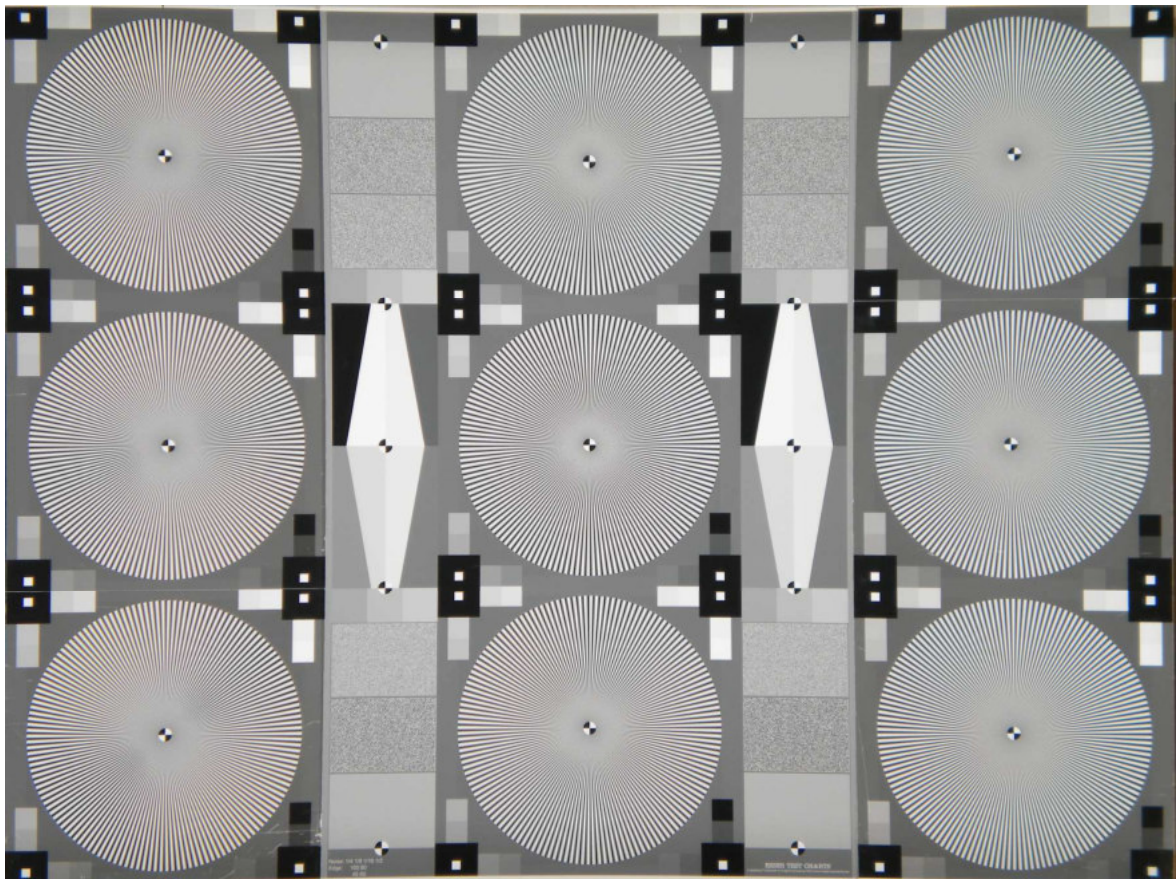


Quick Start Guide

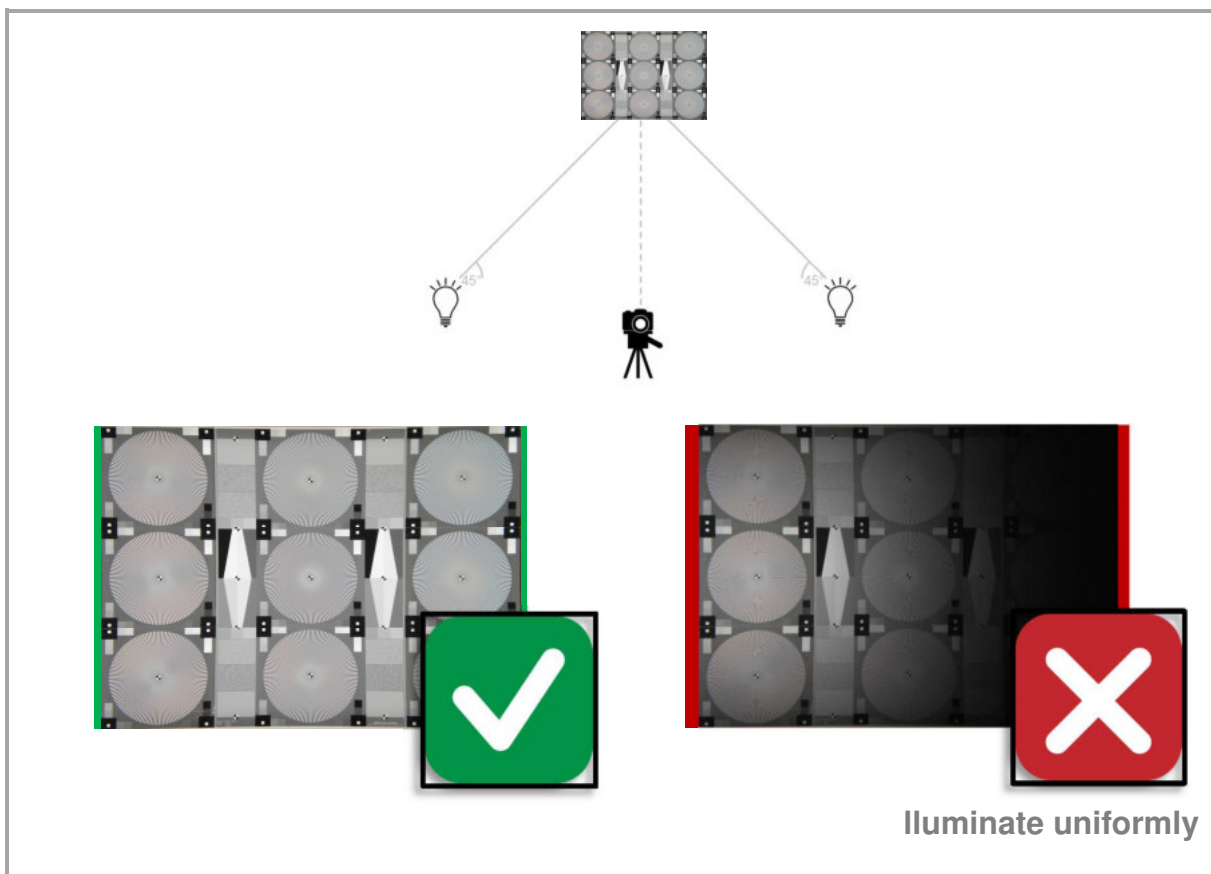
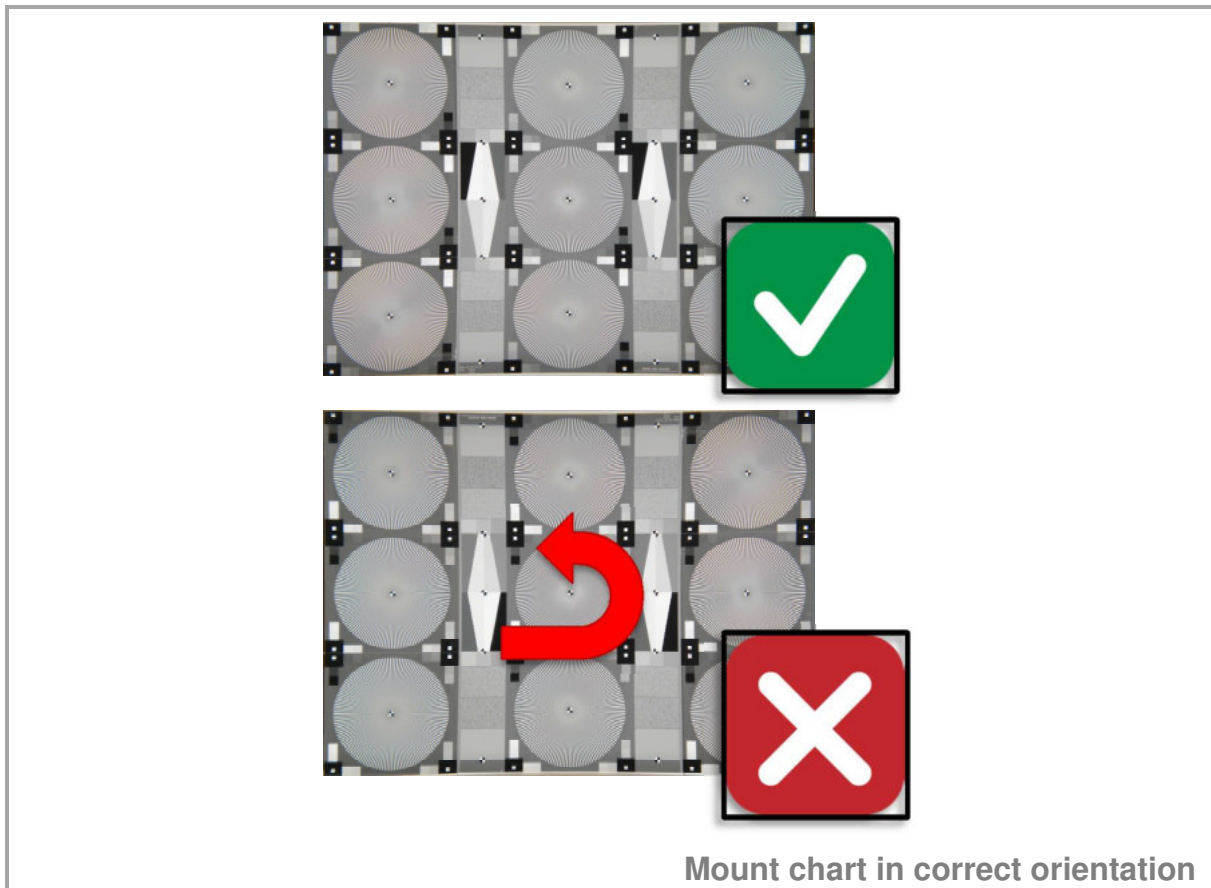
TE253

July 17, 2017





1 PREPARE CHART

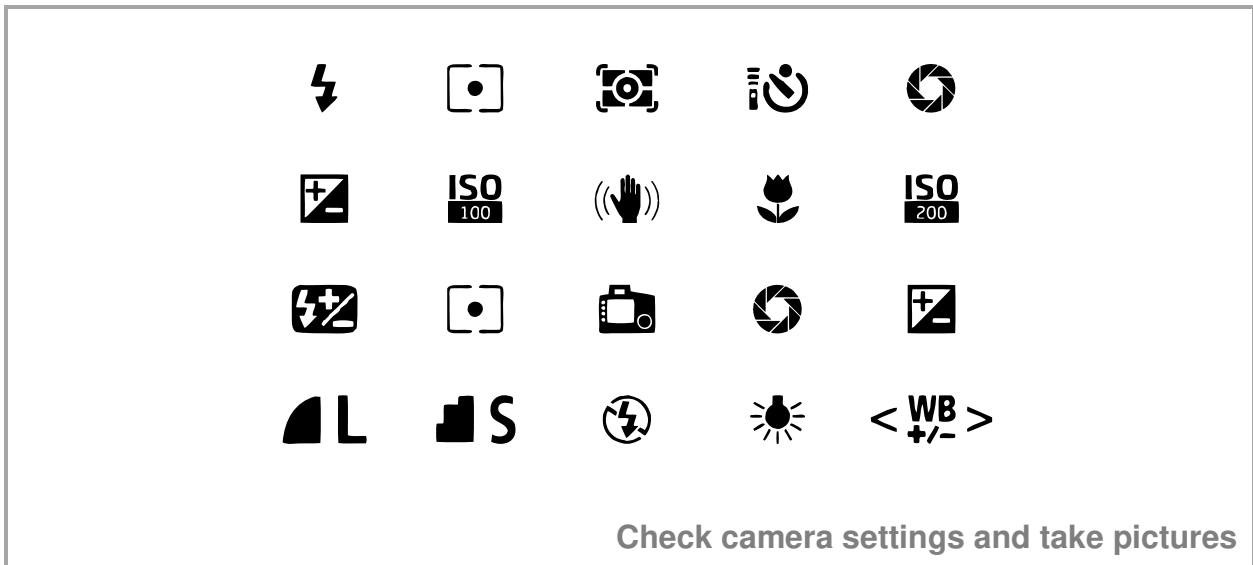





2 PREPARE CAMERA

chart size \neq picture size

Align camera and chart



3 START SOFTWARE

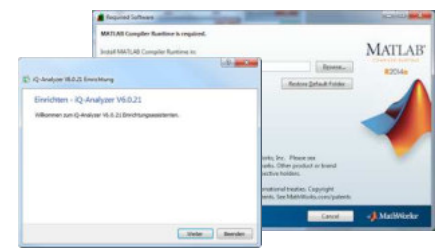
FREE DEMO  **OR BUY**

Request free demo or buy


 www.image-engineering.de

Use shipped DVD or download*



Install



Copy reference files if necessary



Attach USB dongle and run

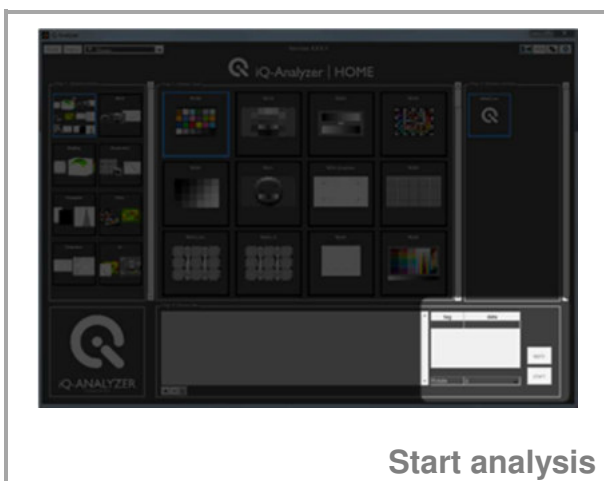
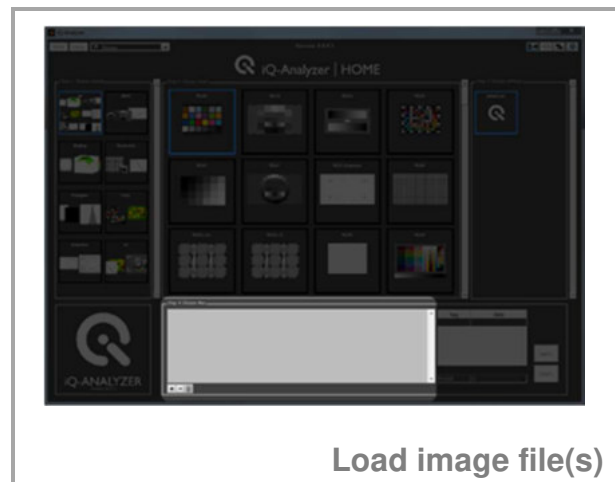
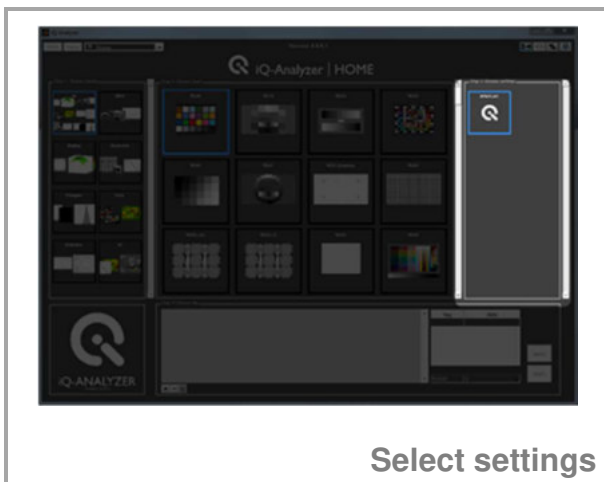
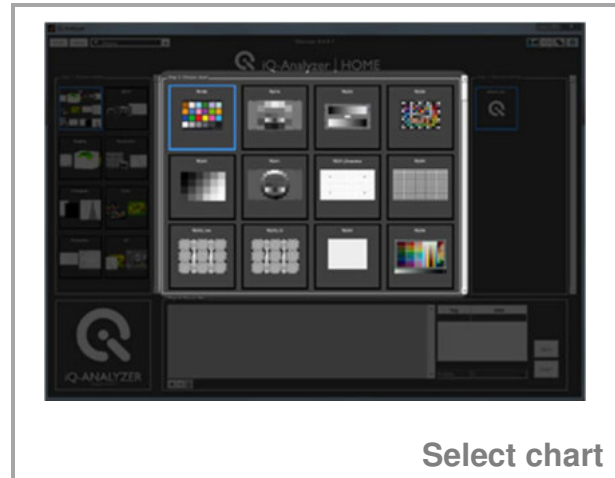
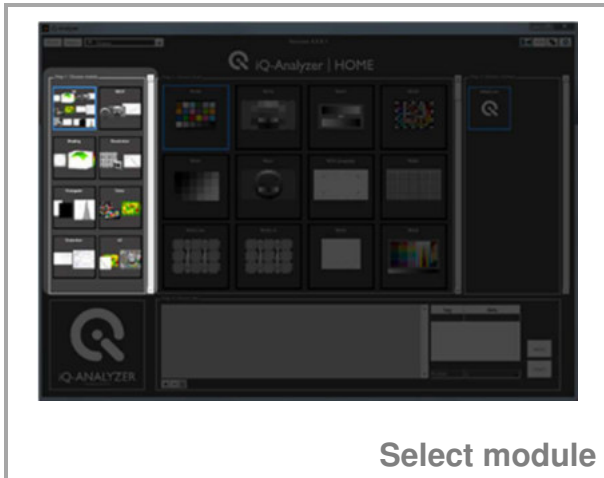
For a three month trial version of the iQ-Analyzer please contact

sales@image-engineering.de

* <https://www.image-engineering.de/products/software/376-ig-analyzer#downloads>



4 USE HOME SCREEN



For customizing the HOME SCREEN to your specific needs, please read the

iQ-Analyzer user manual *

Please note: Default Home Screen just contains default settings.

* https://www.image-engineering.de/content/products/software/analyzer/downloads/iQ-Analyzer_manual.pdf



6 WATCH THE RESULTS

The screenshot shows two windows of the Q-Analyze software. The left window displays a grid of nine star-shaped patterns. The right window, titled 'Siemens - Overview', displays a grid of nine star-shaped patterns with associated data:

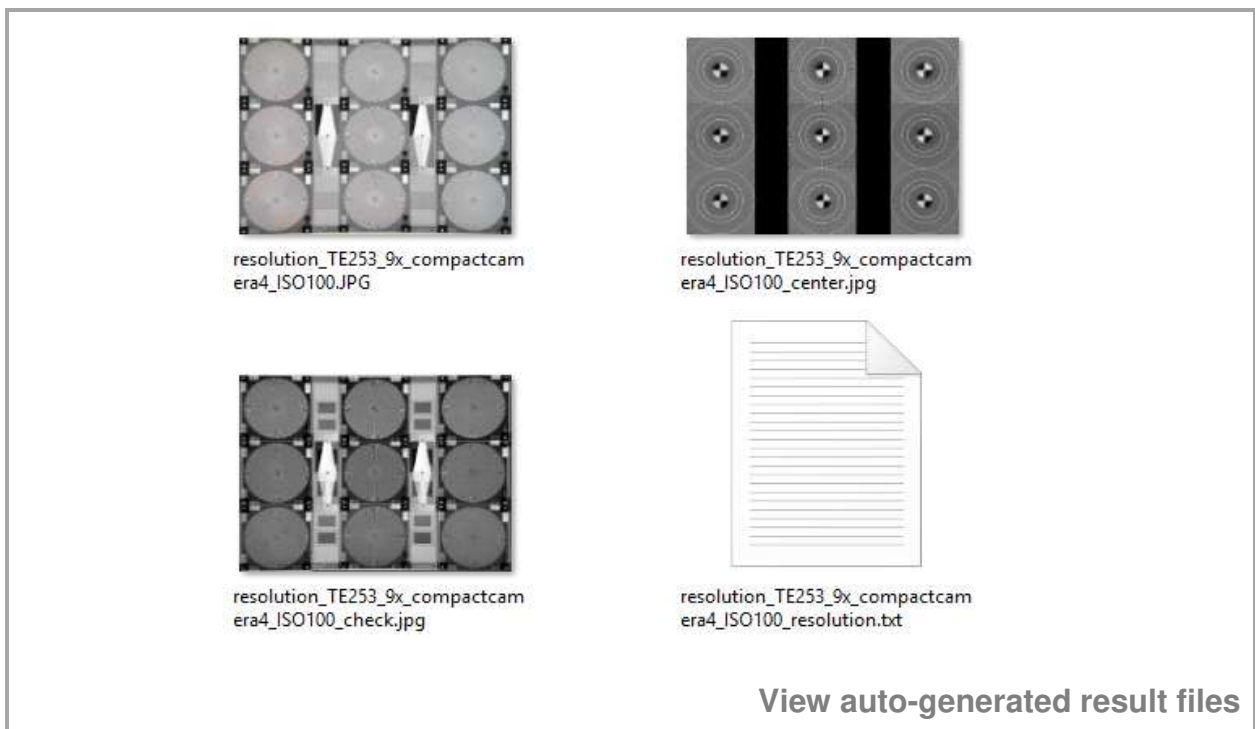
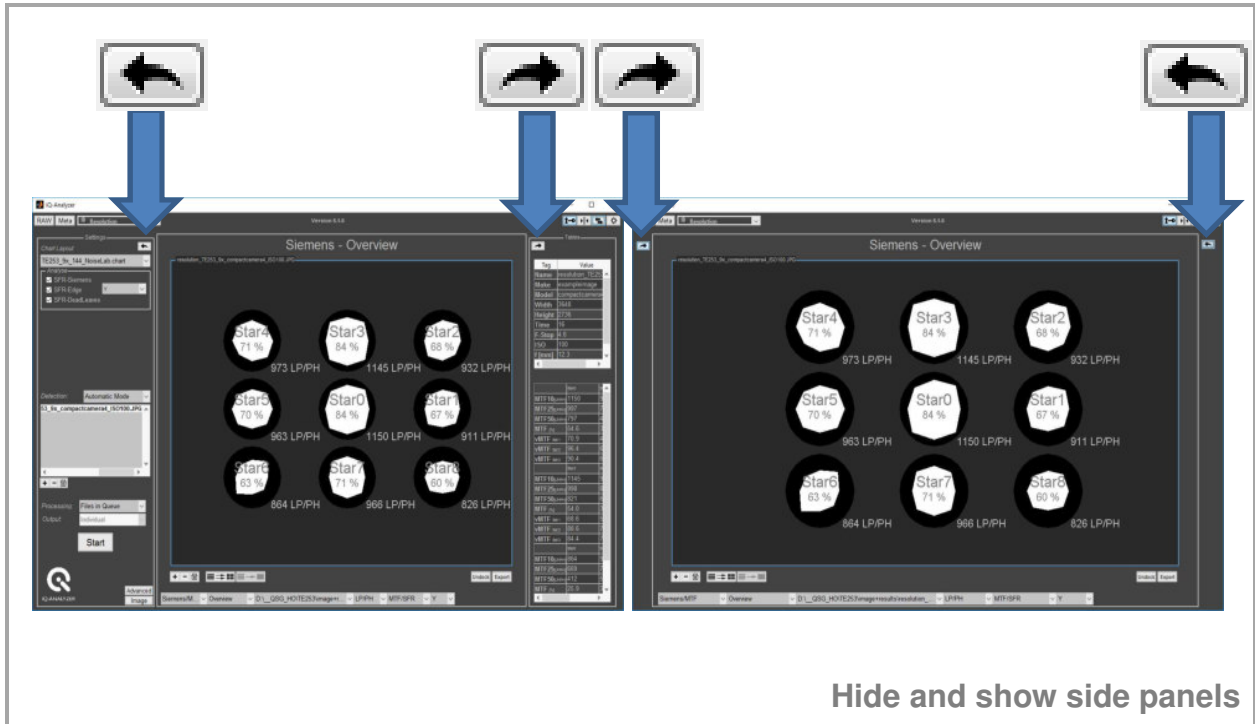
| Star | MTF/SFR (%) | LP/PH |
|-------|-------------|------------|
| Star4 | 71% | 973 LP/PH |
| Star3 | 84% | 1145 LP/PH |
| Star2 | 88% | 932 LP/PH |
| Star5 | 70% | 963 LP/PH |
| Star0 | 84% | 1150 LP/PH |
| Star1 | 87% | 911 LP/PH |
| Star6 | 83% | 864 LP/PH |
| Star7 | 71% | 966 LP/PH |
| Star8 | 80% | 826 LP/PH |

Blue arrows point from a box labeled 'Image' to the left window and from a box labeled 'Result' to the right window. A larger blue arrow points from the 'Image' box to the 'Result' box. Below the windows, the text 'Toggle between image and results' is displayed.

The screenshot shows three windows of the Q-Analyze software. The left window is the 'Siemens - Overview' window with the same data as above. The middle window, titled 'Siemens - All Stars - MTF/SFR', shows a graph of MTF/SFR (%) vs. Resolution (LP/PH) for all stars. The right window, titled 'Edge Profile - All Edges', shows a graph of Edge Profile vs. Pixel Point for all stars. Blue arrows point from the 'Overview' window to the 'All Stars - MTF/SFR' window and from the 'All Stars - MTF/SFR' window to the 'Edge Profile - All Edges' window. Below the windows, a menu is shown with the following options:

| Siemens/MTF | Overview | LP/PH | MTF/SFR | Y |
|-----------------|----------|--------|----------------|---|
| Edge/SFR | Overview | LP/Pix | V-MTF/SFR Set1 | R |
| Edge/Profile | Segments | LP/mm | V-MTF/SFR Set2 | G |
| Noise/Spectrum | Stars | PP1 | V-MTF/SFR Set3 | B |
| Noise/Histogram | Groups | | | |

Below the menu, the text 'Toggle between different result views' is displayed.



Congratulation!
You ran your first analysis!



7 WHAT'S NEXT?

The screenshot shows the IQ-Analyzer software interface. The main window displays a 'Siemens - Overview' chart with nine star patterns labeled Star0 through Star8. Each star is accompanied by its resolution in LP/PH and a percentage value. An 'Export' button is highlighted with a blue glow and an arrow pointing to a detailed results window.

Siemens - Overview

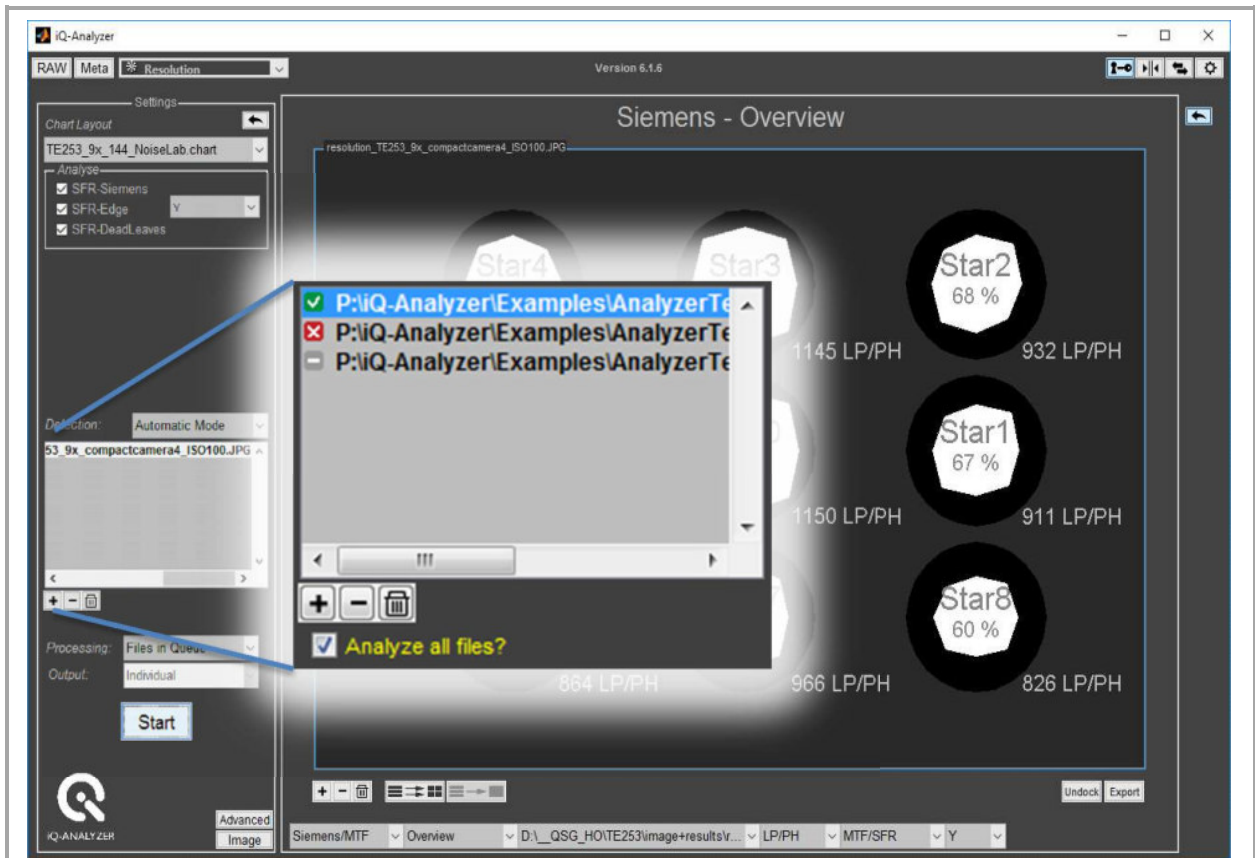
| Star | Resolution [LP/PH] | Percentage |
|-------|--------------------|------------|
| Star4 | 973 LP/PH | 71 % |
| Star3 | 1145 LP/PH | 84 % |
| Star2 | 932 LP/PH | 68 % |
| Star5 | 963 LP/PH | 70 % |
| Star0 | 1150 LP/PH | 84 % |
| Star1 | 911 LP/PH | 67 % |
| Star6 | 864 LP/PH | 63 % |
| Star7 | 966 LP/PH | 71 % |
| Star8 | 826 LP/PH | 60 % |

Export Results

| Property | Value |
|---------------------|----------------|
| Make | exampleimage |
| Model | compactcamera4 |
| Width | 3648 |
| Height | 2736 |
| Time | 16 |
| F-Stop | 4.6 |
| ISO | 100 |
| f [mm] | 12.3 |
| EV | - |
| Serial: | |
| Lens: | |
| Firmware: | noExif |
| Illumination [lux]: | |
| Object Distance [m] | |
| Laboratory: | |
| Operator: | |

MTF Data Table

| | Star0 | Star1 | Star2 | Star3 | Star4 | Star5 | Star6 | Star7 | Star8 |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| MTF10 [LP/PH] | 1150 | 911 | 932 | 1145 | 973 | 963 | 864 | 966 | 826 |
| MTF25 [LP/PH] | 997 | 716 | 763 | 998 | 826 | 807 | 669 | 760 | 612 |
| MTF50 [LP/PH] | 797 | 497 | 549 | 821 | 642 | 590 | 412 | 529 | 335 |
| MTF [%] | 54.6 | 30.4 | 33.8 | 54.0 | 39.5 | 36.0 | 25.9 | 32.8 | 21.9 |
| vMTFSet1 [%] | 70.9 | 42.2 | 46.6 | 68.6 | 53.7 | 49.0 | 36.1 | 45.0 | 30.8 |
| vMTFSet2 [%] | 96.4 | 67.9 | 72.9 | 88.6 | 79.5 | 74.2 | 59.7 | 70.2 | 52.5 |
| vMTFSet3 [%] | 90.4 | 60.3 | 65.4 | 84.4 | 72.8 | 67.3 | 52.4 | 63.1 | 45.6 |



Analysis successful



Analysis failed



Not analyzed yet



Analyze successfully analyzed images again?

Change settings and re-start analysis



8 NEED HELP?



Read the iQ-Analyzer user manual*



Attend our Webinars**



Ask our Support Team

9 CONTACT US

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* https://www.image-engineering.de/content/products/software/analyzer/downloads/iQ-Analyzer_manual.pdf

** <https://www.image-engineering.de/products/software/376-iq-analyzer#webinars>