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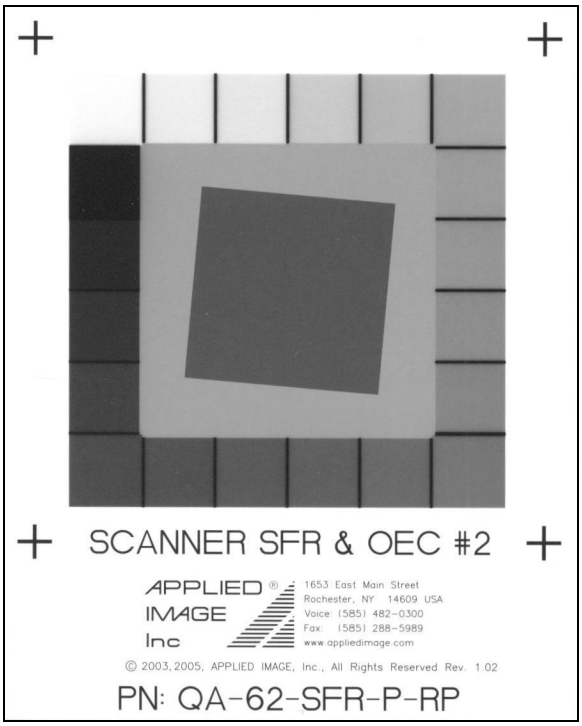
QA-62-RM
SFR & OECF #2
Scanner Test Chart
Product Specifications

Catalog Part No: **QA-62-RM**

Product Name: **Slant Edge Scanner Target with Grayscale SFR & OECF #2**

Drawing / Photo of Part:



The above image is only an approximate representation of the actual product.
Specifications are subject to change without notice.

Description: Dark grey 25mm square rotated 5 degrees (CW) on a grey field. Surrounding grayscale patches change in discrete steps from white to black. Twenty patches are provided, measuring 9x9mm each. The four corner-crosses measure 2.625" (66.68mm) center to center. The upper right grayscale patch is equal in density to the background of the rotated square (0.50 density). The lower left grayscale patch is equal in density to the center rotated square (1.10 density).

Substrate Size: 75 x 95mm

Substrate Type: White reflective photo-paper

Image Forming Material: Photographic emulsion

Polarity: Positive

Reading Direction: Right Read Emulsion Up (RREU).

Image Placement Accuracy: Not applicable

Feature Size Accuracy: Not applicable

Image Contrast / Density: Not applicable

History / typical use: Test Chart is used to check response of digital systems to the slanted sharp edge step function, an MTF analysis.

Other: Typical computer programs are available that use a slanted edge to determine SFR or MTF where the user can easily select fiducial mark locations through a GUI. Four SFR estimates (two horizontal and two vertical) are generated based on pre-defined edge locations as well as Opto-Electronic Conversion Function (OECF) and noise data for target gray patches. TIFF and BMP files are the acceptable input formats.

Slant-edge features can be analyzed using SFR software available through:

Windows and Mac SFR program (sfr.zip) is available at no charge from:
Image Quality from an Edge Target (SFR)
http://www.mitre.org/tech/mtf/index.html

ImageJ is a handy image analysis tool, with many plugins, including one for mtf analysis;

https://imagej.net/Welcome
https://imagej.net/plugins/se-mtf/index.html

Sourceforge offers a “pre-alpha” version of SFR analysis at:
http://sourceforge.net/projects/slantededge/

Sourceforge also has;
http://sourceforge.net/projects/mtfmapper/

Not free, but decent analysis program:
http://www.quickmtf.com/

Related Parts: QA-61, QA-76, QA-72, QA-77