

Camera imaging quality testing with MTF:

A complete guide from beginner to professional

By Dian Xie, Neil Kang, Alec Liu, Thomas Tao, Henry Hu

BACKGROUND INTRODUCTION

Consumers often equate camera resolution with the number of pixels, with a higher number denoting better resolution. In reality, the number of pixels is only a partial factor in camera imaging resolution, with other factors including lens specification, sensor size, auto focus accuracy and the ISP algorithm also impacting the resolution of the final image or video.

Example. The two images below were taken using the author's two smartphone cameras using the pixels setting (around 12M pixels). As you can see, the image of the right has a much lower resolution.

If the number of pixels is not a reliable indicator of camera resolution, what professional metrics can be used?

ISO12233- Photography - Electronic still picture imaging - Resolution and spatial frequency responses contains several options, of which modular transform function (MTF) is the most frequently used.

This paper explains the professional MTF in an easy-to-understand way, with illustrations. By the end, you'll even be able to use Python code to calculate MTF using the edge-based spatial frequency response (e-SFR) method.



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The British National Bibliography Arthur James Wells, 2003

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