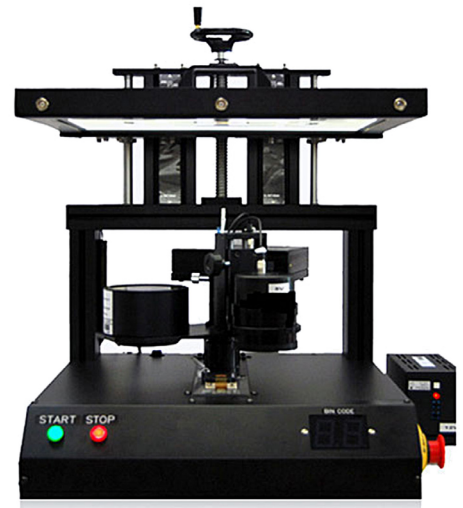# imatest ®

Imatest IT

Industrial Testing

> **Imatest IT provides us with a gaugeable test platform from start to RMA. We have found that of all our camera module suppliers, those who follow our recommendation to use Imatest throughout their manufacturing process are the ones that perform the best.**

Camera Engineering Lead
Fortune 100 Mobile Device Manufacturer

Why Imatest IT?

After using Imatest Master to set image quality standards in the design process, you will need to pass those same specifications on to manufacturing. Some partners choose to develop their own in-house testing system, but must then face questions regarding the potential for testing bias. Imatest Industrial Testing (IT) allows for integration of key Imatest Master modules into an existing testing program as software components. When our customers use Imatest IT, they're ensuring that they'll have consistent test results throughout the manufacturing process.

Selected Features:

- Pass/Fail Spec allows you to define the required quality levels for a camera.
- SFRplus chart analysis allows for a complete map of sharpness nonuniformity, unlike many manufacturing tests that limit sharpness checks to the center and corners of the image.
- The Even Field Test detects blemishes on the sensor, measures color and illumination, non-uniformity, as well as detecting defective pixels.
- Calibrate Signal Processing using the results of color and illumination uniformity tests on each module and use it to correct for each camera's uniqueness.
- Maximized Efficiency achieved by completing camera QA tests with just three images: SFRplus, light even field and dark even field.

Benefits:

- By inspecting the sensor and lenses before completion of the camera module, and before the final assembly of the device, Imatest IT detects problems early in the manufacturing process, preventing more costly loss in yield later down the line.
- Allows your business to safely balance fast production and product quality by automating a process that has been done historically by human quality control.
- Eliminates potentially self-serving results generated by a partner's in-house testing system.
- By using the same Imatest algorithm and charts for production that you used in Research and Development, eliminate the need for correlation of partner test results.
- Imatest IT has passed grueling gage range & repeatability (GR&R) validation and hardened by tens of millions of devices tested within strict six sigma manufacturing supply chains.