# imatest ®

# Imatest IT

## *Industrial Testing*

> " Imatest IT provides us with a gaugeable test platform from start to RMA [Return Merchandise Authorization]. 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?

Imatest Industrial Testing (IT) integrates key Imatest Master modules as software components into an existing testing program. When our customers use Imatest IT, test results become consistent throughout the manufacturing process. Some suppliers choose to develop their own in-house testing system, but then face questions regarding the potential for testing bias. Imatest IT resolves this issue by integrating the same specifications set during the design process.

## Selected Features

- **Pass/Fail Specification** allows you to define 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 an image.
- **Even Field Test** detects blemishes on the sensor, measures color and illumination non-uniformity, and detects defective pixels.
- **Calibrate signal processing** with the results of color and illumination uniformity tests on each module and correct for the uniqueness in each camera.
- **Maximize efficiency** by completing camera quality assurance (QA) tests with just three images: SFRplus chart, light even field, and dark even field.

## Benefits

- By inspecting the sensor and lenses before completing the camera module and the final device assembly, Imatest IT detects problems early in the manufacturing process and prevents costly loss in yield later down the line.
- Allows your business to safely balance fast production and product quality by automating a process that was once completed by hand.
- Eliminates potential self-serving results generated by a supplier's in-house testing system.
- Prevents the need for correlation of supplier test results by using the same Imatest algorithm and charts for production used in research and development.