

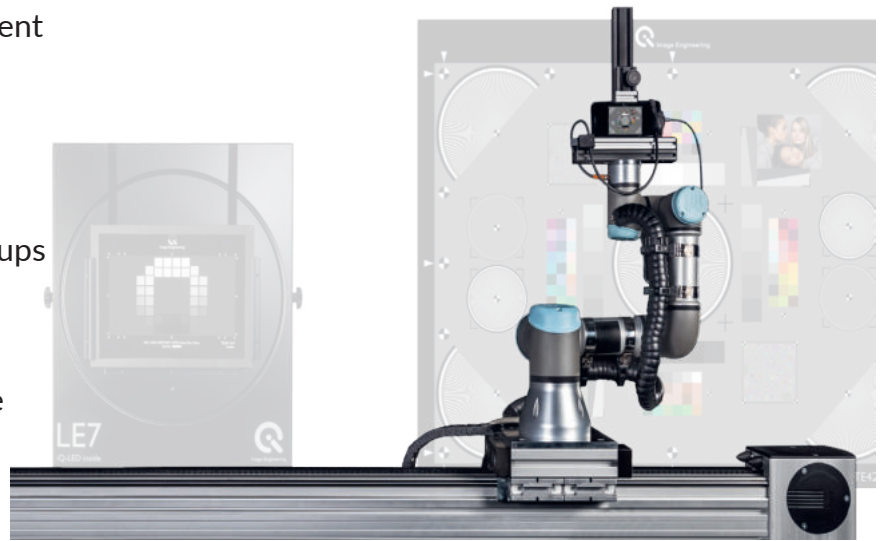
iQ-Automator Solution

A fully automated camera test is now just one click away

The combination of the iQ-Automator software and the iQ-Robot creates a more efficient and time-effective way to automatically test and provide feedback about the image quality of a mobile phone camera.

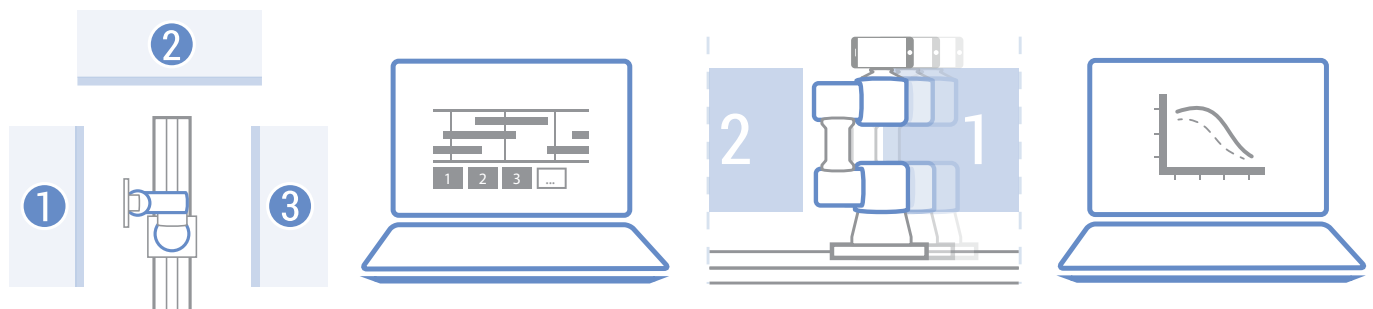
Main Features

- * Automatic and accurate alignment
 - ▶ to measurement devices
 - ▶ to test charts
- * Manage different hardware setups
- * Customize test workflows
- * Drag and drop control software



iQ-Automator software

This solution is centered around the advanced iQ-Automator software. With this software, you can design custom workflows and then automatically align the device under test with many of our illumination and measurement devices.



1 Setup test scene

Arrange various illumination and measurement devices around the iQ-Test-bench and robotic arm.

2 Create test procedure

Drag and drop control software to create a full test procedure for automated testing.

3 Run test

The DUT is automatically aligned in front of the measuring devices according to the test procedure.

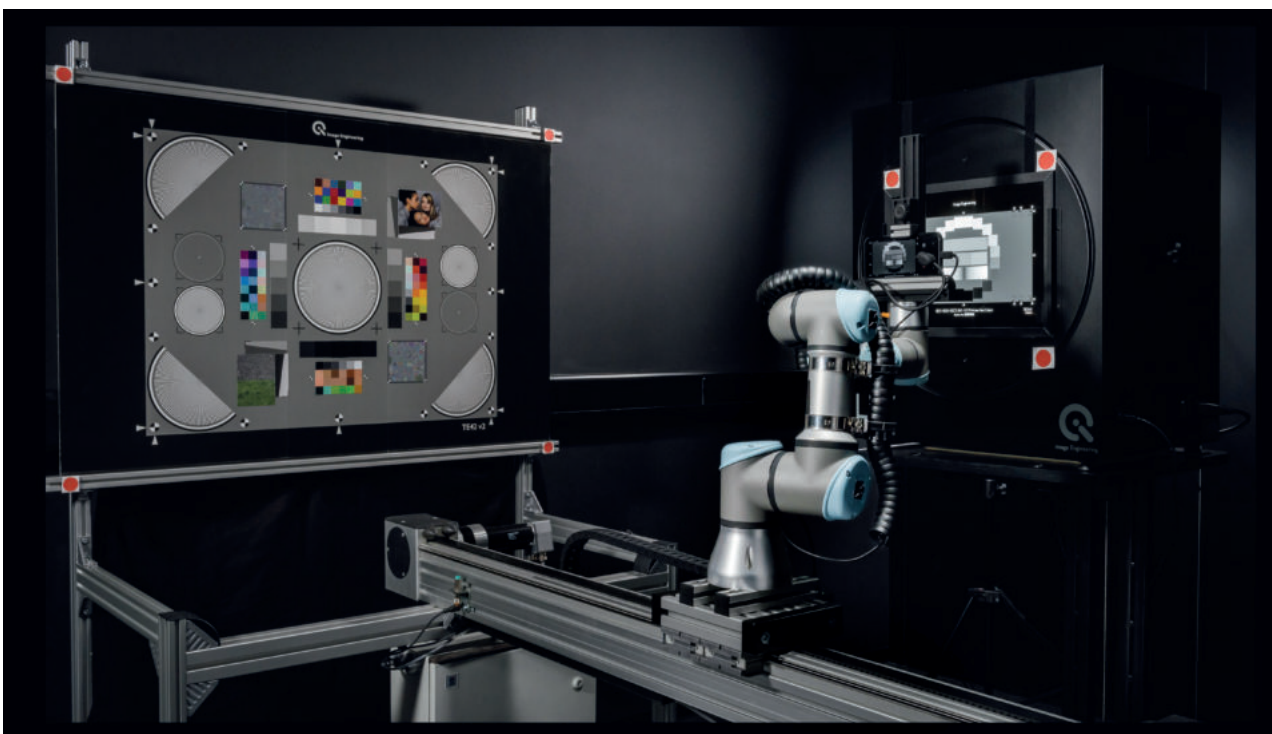
4 Optional: Analysis

Automatic transfer of images from the DUT to your computer for analysis using the iQ-Analyzer software or your in-house analysis solutions.

The iQ-Automator hardware setup

To align the device under test, we use the iQ-Robot and a motorized iQ-Bench. The iQ-Robot has six rotating joints that allow the device the freedom to efficiently align to the various test charts and other measurement devices. The iQ-Robot is attached to a motorized iQ-Bench, which can be customized for length.

Multiple hardware setups can be stored and managed using the iQ-Automator software without any additional on-site software development. As a result, the iQ-Automator Solution can be integrated into your test lab right away without any additional development.



iQ-Automator

At a Glance	iQ-Robot
Principle	Camera positioning and alignment
Robot Arm	UR3
Max. payload	3 kg
Max. arm radius	500 mm
Degrees of freedom	6 rotating joints
Hardware APIs	Component APIs available on request
At a Glance	iQ-Bench
Principle	Camera to chart distance
Length	3730 mm (movement range + 730 mm)

At a Glance	iQ-Automator
Principle	Control Software
Version	C++ API available (OS Windows) iQ-Drive API* iQ-LED API*
At a Glance	iQ-Analyzer
Principle	Image quality analysis software

*API sold separately