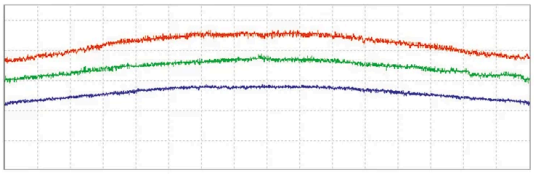
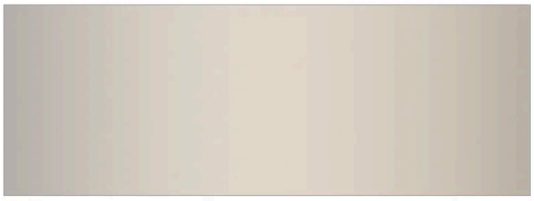
## TRUE COLOR IMAGING TECHNOLOGIES

### WHITE BALANCE

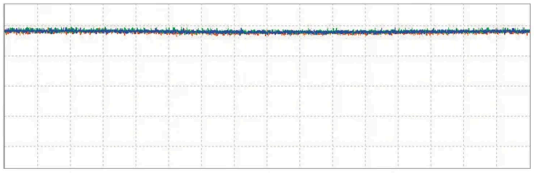
A scan of a white template over a defined distance is performed to produce a 2D image. The software calculates a reference curve to correct for variations in brightness. The resulting lookup table is stored in the flash memory of the camera.
More information can be found here.



**BEFORE WHITE BALANCE**
RGB raw signal without white balance



**BEFORE WHITE BALANCE**
RGB area scan without white balance



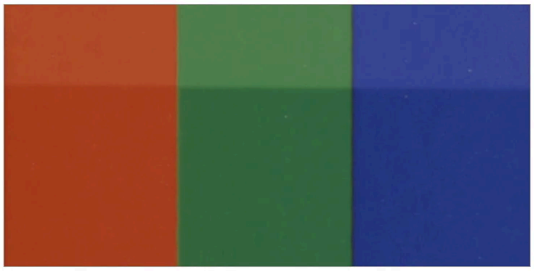
**AFTER WHITE BALANCE**
Line signal with active white balance

**AFTER WHITE BALANCE**
Area scan with active white balance

## COLOR CALIBRATION

For effective color reproduction by the entire scanner, a standardized color calibration is necessary using an IT8-target of a defined color palette. The IT8-target is imaged by the scanner and the software calculates an ICC-profile on the basis of defined reference values. Subsequent scans can use this profile to produce images with reliable color fidelity.

Zoomed sectionof the IT8-target, raw dat



Zoomed section of the IT8-target with applied ICC-profile

This is a printout of the page https://sukhamburg.com/support/technotes/linescancamera/basics/color.html from 5/13/2025

## CONTACT

**For more information please contact:**
**Schäfter + Kirchhoff GmbH**
**Kieler Str. 212**
**22525 Hamburg**
**Germany**
**Tel: +49 40 85 39 97-0**
**Fax: +49 40 85 39 97-79**

**info@sukhamburg.com**
**www.sukhamburg.com**

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