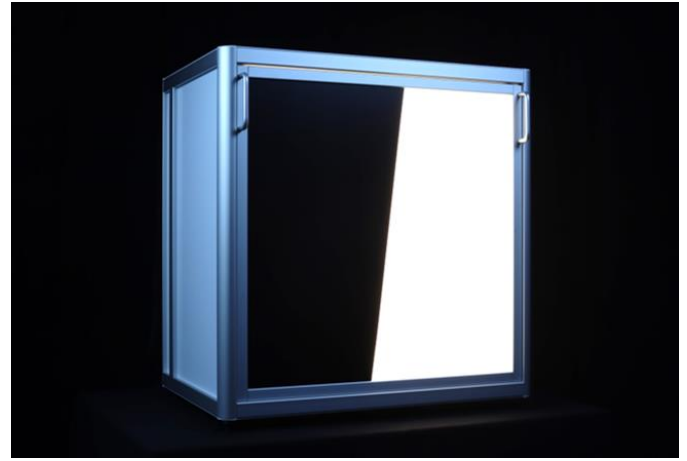


LIGHTBOX

VIS and NIR measurement target for

- ✓ Intrinsic and Extrinsic calibration
- ✓ Absolute resolution (MTF)
- ✓ VIS and IR camera focusing



LIGHTBOX with the MTF target

NomiCam LIGHTBOX provides uniform illumination for transmissive charts. The illuminants are selected based on client camera specification and requirements. The transmissive charts are designed to support the camera calibration, resolution and focusing measurements.

LIGHTBOX MEASUREMENTS

Intrinsic camera calibration:

Focal length, Principal point, Distortion

Extrinsic camera calibration:

Rotation and 3D translation

Resolution measurement:

Absolute resolution (MTF) measurement

Focusing of IR cameras:

Based on relative resolution measurement

TECHNICAL SPECIFICATION

System set-up:

- LIGHTBOX unit.
- USB control interface adapter
- Power supply unit

User interface and control:

- Power switch
- Manual switch for illuminant selection
- USB control (Option)

Dimming range: 1 – 100 %
Control resolution: 1%

Power supply:

Input voltage: 230 VAC
Max. power: 250W

Dimension and weight:

Width/Height/Depth: 700 / 730 / 490 mm
Weight: 18 kg

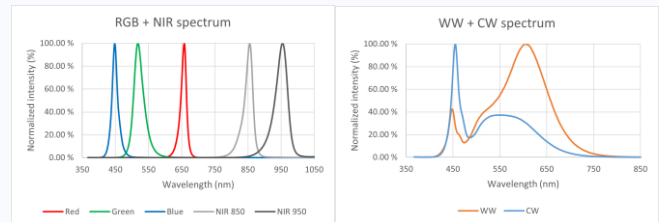
Automation and analysis tool - option:

NomiCam provides measurement and calibration automation based on client needs. We are happy to talk more about how to build a solution for your camera product.

Illumination:

Illuminant options:

White	2700 K, 6500 K
Color	450 nm, 520 nm, 660 nm
NIR	850 nm, 950 nm
Custom illuminants	available per request

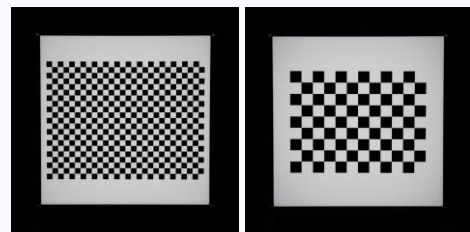


Uniformity (Coefficient of Variation)

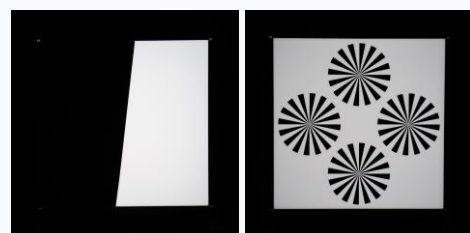
Including corners	> 90%
Middle (60% area)	> 98%

Transmissive chart options:

Active area: 590 x 590 mm



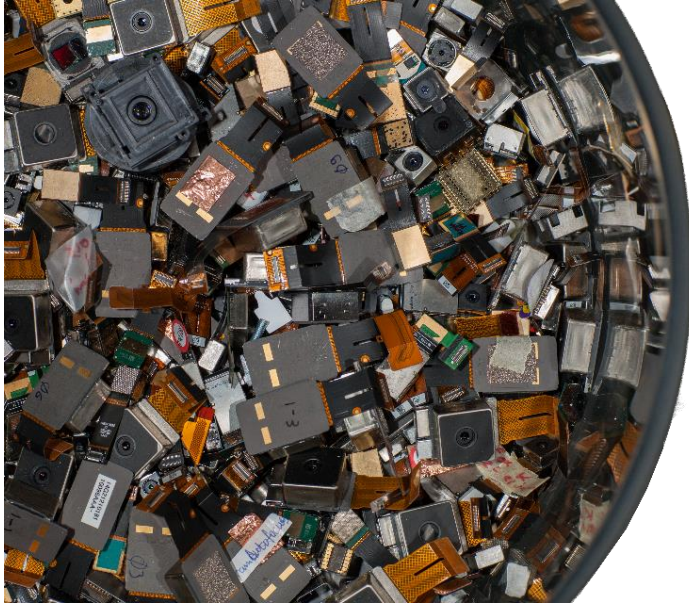
Checkerboard



Slanted edge

Binary Siemens star

NomiCam



Company brief

At NomiCam, we specialize in camera image quality. We have been particularly successful with companies in smart device industries that are concerned about the image quality in various situations. Our services help to save time and minimize the CAPEX. Clients appreciate our straight forward service model and measurement result available from NomiCam top of the class test labs. Many of our clients' value benefit from our camera technology expertise, test equipment and test methods.

Solutions and Services

Image quality (IQ) testing

Image quality tuning

Camera calibration

IQ measurement development

Building IQ labs

MIP imaging software

Camera HW testing

Camera R&D

NomiCam in brief:

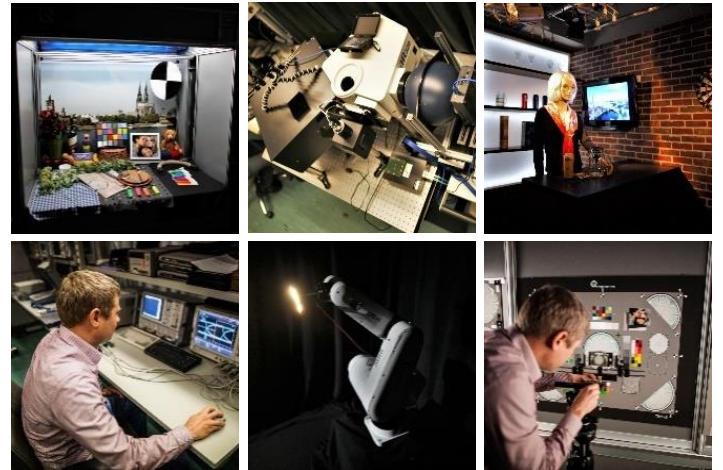
- Established in 2016
- Headquarters in Tampere, Finland
- 6 image laboratories, 463m2
- 12 imaging experts
- 300+ delivered Camera projects
- Serving customers globally since 2017

Special expertise in:

- Testing of miniature camera technologies
- Qualcomm, OmniVision and MediaTek ISPs
- Camera HW and interfaces (MIPI CCI, CSI)
- Objective and subjective image quality
- Camera issues debugging
- Camera HW validation inc. thermal behavior
- Benchmark tests


NomiCam Laboratories:


- Image quality Lab
- VCX Certified Lab
- HDR Test Lab
- Field Test Lab
- Optical Test Lab
- Hardware Test Lab
- Thermal Test Lab
- Goniospectroradiometric Lab




Thank you for your interest!

Contact us for further details:

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