

DYNAMIC

Measurement solution for camera High Dynamic Range (HDR)



DYNAMIC: 3up HDR test setup, 1 – 180 000 lux

NomiCam DYNAMIC provides automated HDR test solution capable to 22 stop (132 dB) dynamic range measurement. The DYNAMIC enables measurement and tuning of camera's color performance, tone mapping and motion artifacts. It includes three identical units with independently adjustable illuminance level. The DYNAMIC supports both stand-alone usage and API for test automation.

TEST CASES

Color accuracy, White balance, Noise, Dynamic range, Tonal response, Motion artifacts

TECHNICAL SPECIFICATION

System set-up:

3up system; three identical and independently controlled DYNAMIC light boxes.

Free to choose assembly layout for the light boxes, example layout in the picture.

Measurement targets:

Xrite color checker (6 x 4)

Binary BW rotating wheel

Mounting points for custom targets

Illumination control:

Illumination level: 1 – 180 000 lux

Color temperature: 5000 K

Binary BW rotating wheel:

Rotation speed range: 1 - 120 RPM

User interface:

Data connection: Ethernet, RJ-45

Automation API: TCP/IP REST

GUI (manual usage): Web UI

OS support: Win, Linux, MAC

Automation and analysis tool - option:

NomiCam MIP software

Power supply:

Input voltage: 110 - 230 VAC

Max. power: 1kW per box

Single box dimension:

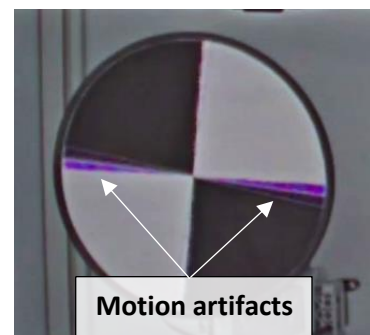
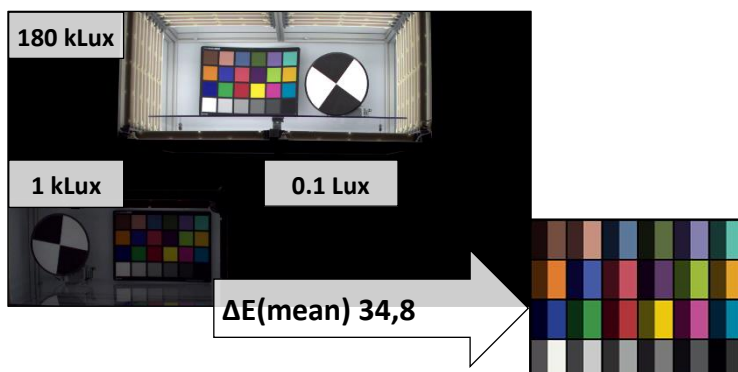
Width: 680 mm / 26.8 in

Height: 370 mm / 14.6 in

Depth: 720 mm / 28.3 in

Weight: 21 kg / 46.3 lb.

Dimensions of three box setup can be defined based on assembly layout.



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:

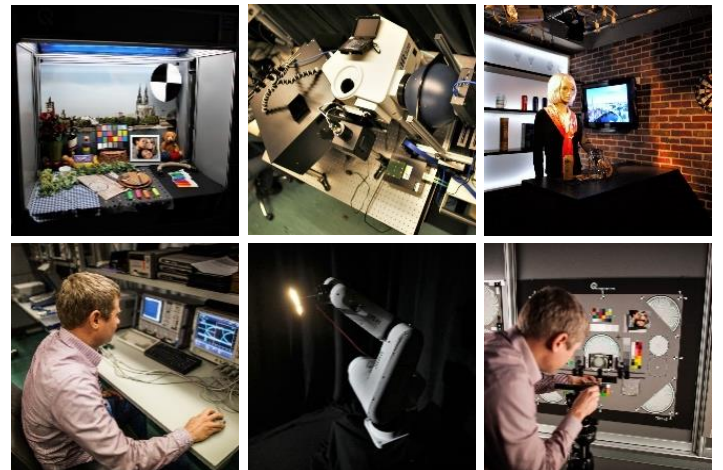
- Established in 2016
- Headquarters in Tampere, Finland
- 6 image laboratories, 463m2
- 12 imaging experts
- 100+ delivered Camera projects
- Serving customers globally since 2017
- Annual revenue 1 M€

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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